


# **Attachment No. PC 7**

Lighting Fixture Cut Sheets



 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com LIGHTING DESIGN AND THEATRICAL CONSULTING</p>		<h1>MARINER'S POINTE</h1> <h2>NEWPORT BEACH, CALIFORNIA</h2>	TYPE	A1
			ISSUE DATE	5/29/2012
			REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
SURFACE-MOUNTED COMPACT LED FLOODLIGHT WITH WIDE FLOOD OPTICS AND WARM-WHITE LEDS		KIM LIGHTING CFL1-27L3KUV-<FINISH> SURFACE-MOUNT BOX J-27N FINISH: TBD	LAMP	WARM WHITE LEDS INTEGRAL
			WATTAGE	32.4
LOCATION	1F GARAGE AT RETAINING WALL		VOLTAGE	PER EE
			SOURCE	LED

# Compact Floodlight LED

CFL1 - LED

## FEATURES

- 27 energy efficient LED diodes configured in a rectangular array for directional illumination
- Designed for a wide beam spread while maintaining excellent uniformity
- Die-cast housing with integral cooling ribs design to dissipate heat allowing electrical components to operate within their allowable limits
- A variety of mounting options and standard heavy duty swivel allows flexibility for fine-tuning projects on the job site



SITE / ROADWAY

## ORDERING INFORMATION (Example)

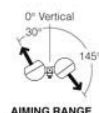
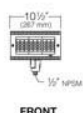
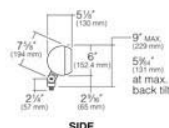
CF1	27L5KUV	BL	BD-CFL	JBR-21
<b>FIXTURE</b>	<b>FIXTURE FINISH</b>	<b>FIXTURE ACCESSORIES</b>	<b>MOUNTING OPTIONS</b>	
CFL1 Wide Flood	BL Black DB Dark Bronze LG Light Gray SG Stealth Gray™ PS Platinum Silver WH White CC Custom Color* *Consult representative	BD-CFL Barn Doors <sup>1,2</sup> FH-CFL Fixed hood <sup>1</sup> FS-CFL Full Shield <sup>1,3</sup>	<b>JBR-2</b> Brass in-grade Architectural J-box, (2) 1/2" NPT in bottom <sup>4,5</sup> <b>JBR-3</b> Brass in-grade Architectural J-box, (2) 3/4" NPT in bottom <sup>4,5</sup> <b>JBR-21</b> Brass in-grade Architectural J-box, (2) 1/2" NPT in sides, (2) 1/2" NPT in bottom <sup>4,5</sup> <b>JBR-24</b> Brass in-grade Architectural J-box, (4) 1/2" NPT in sides, (2) 1/2" NPT in bottom <sup>4,5</sup> <b>JBR-30</b> Brass in-grade staked J-box <sup>6</sup> <b>JBR-32</b> Brass in-grade staked J-box with cord <sup>5</sup>	


ELECTRICAL MODULE		
Source	Color Temperature	Voltage
27L 27 LEDs	3K 3500K	UV Universal Voltage from 120 to 277V with a ±10% tolerance
	5K 5100K	
	2K Amber	
3K = 3500 Kelvin LED 5K = 5100 Kelvin LED		

- Specify finish, BL - Black, DB - Dark Bronze, LG - Light Gray, SG - Stealth Gray, PS - Platinum Silver, WH - White.
- CAUTION:** Not recommended for ground mounted fixtures in vandal prone areas.
- CAUTION:** Do not use where leaves and trash can collect inside shield.
- All side taps provided with plugs.

- CAUTION:** Fixture stem and swivel must not contact soil or standing water. Provide drainage away from J-box.
- May also be used to hard mount low voltage fixtures.
- Surface mount can be connected to conduit or outdoor cord with waterproof cord seal (by others).

- Should be used with a UL listed fixture and grounding means (i.e., third wire) suitable for use in wet locations.
- CAUTION:** J-box must be installed high enough to avoid contact with soil or standing water.



 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>		<h1>MARINER'S POINTE</h1> <h2>NEWPORT BEACH, CALIFORNIA</h2>	TYPE	A1
			ISSUE DATE	5/29/2012
			REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
SURFACE-MOUNTED COMPACT LED FLOODLIGHT WITH WIDE FLOOD OPTICS AND WARM-WHITE LEDS		KIM LIGHTING CFL1-27L3KUV-<FINISH> SURFACE-MOUNT BOX J-27N FINISH: TBD	LAMP	WARM WHITE LEDS INTEGRAL
			WATTAGE	32.4
LOCATION	IF GARAGE AT RETAINING WALL		VOLTAGE	PER EE
			SOURCE	LED

# Compact Floodlight

CFL

ARCHITECTURAL FLOODLIGHTS



## FEATURES

- Two beam patterns, CFL1 Wide Flood and CFL6 Narrow Spot generate high efficiencies and outstanding uniformity of illumination
- Die-cast housing with integral cooling ribs allows the electrical components to operate well below their allowable limits
- Interchangeable optics, a variety of mounting options and standard heavy duty swivel allow flexibility for fine-tuning projects on the job site

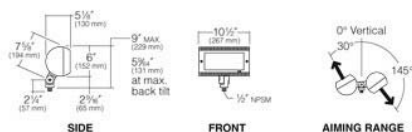
## ORDERING INFORMATION (Example)

CFL1	70PMH277	DB	BD-CFL	JBR-21
FIXTURE		FIXTURE FINISH		MOUNTING OPTIONS
CFL1 Wide Flood	BL Black	BD-CFL Barn Doors <sup>4,5</sup>	JBR-2 Brass in-grade Architectural J-box, (2) ½" NPT in bottom <sup>7,8</sup>	SM18 Stanchion Mount <sup>4</sup>
CFL6 Narrow Spot	DB Dark Bronze	FH-CFL Fixed hood <sup>4</sup>	JBR-3 Brass in-grade Architectural J-box, (2) ¾" NPT in bottom <sup>7,8</sup>	J-27N Surface Mount <sup>4,10</sup>
	LG Light Gray	FS-CFL Full Shield <sup>4,6</sup>	JBR-21 Brass in-grade Architectural J-box, (2) ½" NPT in sides, (2) ½" NPT in bottom <sup>7,8</sup>	JW Architectural Wall Mount <sup>4</sup>
	SG Stealth Gray™		JBR-24 Brass In-grade Architectural J-box, (4) ½" NPT in sides, (2) ½" NPT in bottom <sup>7,8</sup>	EP17 Landscape Light Post Mount <sup>11</sup>
	PS Platinum Silver		JBR-30 Brass in-grade staked J-box <sup>9</sup>	JB1 Architectural J-box <sup>4,12</sup>
	WH White		JBR-32 Brass in-grade staked J-box with cord <sup>8</sup>	J-25N Portable spear mount <sup>13</sup>
	CC Custom Color*			
*Consult representative				
ELECTRICAL MODULE				
50PMH 50W PMH	50HPS 50W HPS	60INC 60W INC	150HAL 150W HAL	13PL 13W PL <sup>2</sup> 42PL 42W PL <sup>2,3</sup>
70PMH 70W PMH <sup>1</sup>	70HPS 70W HPS			
Voltages	Voltages	Voltages	Voltages	Voltages
120 120V	120 120V	120 120V	120 120V	120 120V
277 277V	277 277V			208 208V
				240 240V
				277 277V


<sup>1</sup> G-12 socket available for T-6 bi-pin lamp, consult factory.  
<sup>2</sup> For CFL1 only.  
<sup>3</sup> 42PL operates 26,32, and 42 watt lamps at 120 thru 277 volts (50-60Hz).  
<sup>4</sup> Specify finish, BL - Black, DB - Dark Bronze, LG - Light Gray, SG - Stealth Gray, PS - Platinum Silver, WH - White.  
<sup>5</sup> CAUTION: Not recommended for ground mounted fixtures in vandal prone areas.

<sup>6</sup> CAUTION: Do not use where leaves and trash can collect inside shield.  
<sup>7</sup> All side taps provided with plugs.  
<sup>8</sup> CAUTION: Fixture stem and swivel must not contact soil or standing water. Provide drainage away from J-box.  
<sup>9</sup> May also be used to hard mount low voltage fixtures.  
<sup>10</sup> Surface mount can be connected to conduit or outdoor cord with waterproof cord seal (by others).

<sup>11</sup> Should be used with a UL listed fixture and grounding means (i.e., third wire) suitable for use in wet locations.  
<sup>12</sup> CAUTION: J-box must be installed high enough to avoid contact with soil or standing water.  
<sup>13</sup> For use with incandescent, halogen, and fluorescent fixtures only.



KIM LIGHTING

<div><div><div>THE</div><div></div><div>RUZIKA</div><div>COMPANY</div></div><div>2 Executive Circle, Suite 290 Irvine, California 92614  (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com  LIGHTING DESIGN AND THEATRICAL CONSULTING</div></div>		MARINER'S POINTE  NEWPORT BEACH, CALIFORNIA		TYPE		A2			
				ISSUE DATE		5/29/2012			
				REVISED					
FIXTURE DESCRIPTION			MANUFACTURER & PART #			TECHNICAL INFORMATION			
SURFACE-MOUNTED METAL HALIDE WASH LIGHT FOR WET LOCATIONS WITH ASYMMETRIC REFLECTOR AND CUTOFF HOOD			AMETRIX RS-SO-P-1-E-070-<VOLTS>-<FINISH>-Y103 FINISH: TBD			LAMP		GE CMH70T/U/830/G12 3000 KELVIN 83 CRI	
						WATTAGE		77	
						VOLTAGE		PER EE	
LOCATION			GARAGE ROOF			SOURCE		ELECTRONIC MH	

#### DESCRIPTION

- Extruded aluminum housing
- Die-cast aluminum end caps
- Integrated visor option - solid, perf or opal window
- Die-formed 94% reflective dual-finish anodized aluminum reflector
- Electrostatically applied polyester powder coat paint finish
- Gasketed hinging doorframe
- PointGrab™ adjustment

#### SPECIFICATION FEATURES

##### Construction

Housing is 6063 aluminum extrusions with die-cast aluminum end caps without exposed fasteners. Hinging doorframe for easy access to gasketed lamp compartment, and stainless steel hardware. Optional integrated extruded aluminum cutoff visor.

##### Reflector

Die-formed 94% reflective dual-finish anodized aluminum.

##### Aiming

PointGrab adjustable and lockable aiming system is preset at the factory (25 degrees max. cp. above horizontal). Additional 10-degree indicator marks allow for precise adjustments.

##### Lens

Clear tempered glass, micro-prismatic tempered glass or optional U.V. glass.

##### Electrical

Use 90-degree supply wire. Metal Halide - G12 and Fluorescent - GX24q. Do not use with 4K (942 Series) or Osram Powerball Lamps.

##### Mounting

Standard canopy mounts over recessed junction box (by others). Support structure by others.

##### Finish

Luminaire housing is finished using electrostatically applied polyester powder coat paint. Consult factory for custom colors.

##### Labels

UL and CUL listed for damp locations. Optional wet location listing is available.



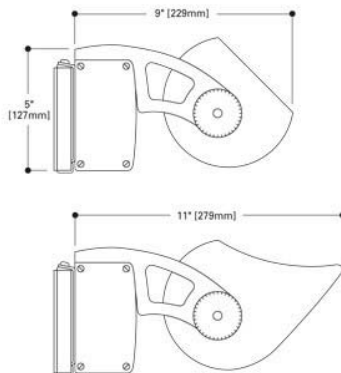
Catalog #	Type
Project	Date
Comments	
Prepared by	



### ROUNDEL

Small Integral

WALL



LAMP CHART

LAMP SOURCE	(NO. OF LAMPS) / WATTAGE	ENVELOPE	BASE	HOUSING LENGTH
Electronic Metal Halide	(1) 39	T6	G12	10-3/4"
	* (1) 39 w/ QRS	T6	G12	13"
	* (1) 70 / 150	T6	G12	13"
Fluorescent	(1) 26 / 32 / 42	Triple Tube	GX24q	13"

\* Optional 75W / T4 / Mini Can quartz restrike (QRS) available with this source for 120V only

#### ORDERING INFORMATION


Sample Number: RO-SI-P-1-E-150-120-W-Y101

Product	Size - In/Outdoor	Lens	Number of Lamps	Wattage	Voltage	Finish	Options
RN: Roundel No Visor	SI: Small Indoor	A: Acrylic	1: 1 Lamp	026: 26W	120: 120V	B: Bronze	L45: 45 Degree Cross Blade Louver
RS: Roundel Solid Visor	SO: Small Outdoor	N: None*	Lamp Type	032: 32W*	277: 277V	C: Custom Color	L25: 25 Degree Cross Blade Louver
RO: Roundel Opal Visor		P: Micro-Prismatic	E: Metal Halide - Electronic	039: 39W	347: 347V	K: Black	NAT: Natatorium Environment
		C: Clear	CF: Compact Fluorescent - Electronic	042: 42W*	UNV: Universal	S: Silver	QRS: Quartz Restrike*
		U: U.V.		070: 70W		W: White	
				150: 150W*			

- Notes:
- 1 Fluorescent Indoor Only.
  - 2 Use only GE or Sylvania lamps.
  - 3 HID sources in this wattage comply with California Title 20.
  - 4 Not available for 277V or 347V.

##### Mounting

- Y101: Yoke Integral Style 01  
Y102: Yoke Integral Style 02  
Y103: Yoke Integral Style 03  
Y104: Yoke Integral Style 04

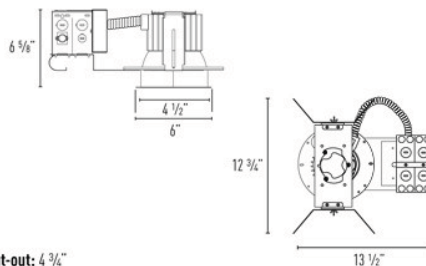
<div><div><div>THE</div><div></div><div>COMPANY</div></div><div><div>2 Executive Circle, Suite 290 Irvine, California 92614</div><div>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</div><div>LIGHTING DESIGN AND THEATRICAL CONSULTING</div></div></div>	<div>MARINER'S POINTE</div> <div>NEWPORT BEACH, CALIFORNIA</div>		TYPE	D1
			ISSUE DATE	5/29/2012
			REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
RECESSED SMALL-APERTURE LED LENSED DOWNLIGHT FOR DAMP LOCATIONS		INTENSE LIGHTING ILM4-700-30-VOLTS REFLECTOR IC422-HZ-SFW	LAMP	WARM WHITE LED INTEGRAL 3000 KELVIN 85 CRI 50,000 HOURS
			WATTAGE	14
LOCATION	1F RETAIL AT COLUMNS		VOLTAGE	PER EE
			SOURCE	LED

### ILM4700 / IC420

4" Architectural LED Round 700lm / Open Reflector



JOB NAME		CATALOG NUMBER	
NOTES		TYPE	



Order Matrix | Example: ILM470035-DIM-1100

A	B	C	D	E
<b>A</b> Series			<b>D</b> Power Supply	
<b>ILM4</b> 4" LED Recessed			blank 120V Electronic Driver	
			<b>-27</b> 277V Electronic Driver	
<b>B</b> Module Lumen Output			<b>-DIM-27</b> 120V 0-10V Dimming	
<b>700</b> 700lm 14W			<b>-277V</b> 277V 0-10V Dimming	
			<b>-LUT-27</b> 120V Lutron Hi-lume®	
			<b>-LUT-27</b> 277V Lutron Hi-lume®	
<b>C</b> Color Temperature			<b>E</b> Options	
<b>27</b> 2700K <sup>1</sup>			<b>-EM</b> Emergency Backup	
<b>30</b> 3000K <sup>1</sup>			<b>-1100</b> C-Channel Bar Hanger	
<b>35</b> 3500K			<b>-1200</b> Flat Bar Hanger	
<b>40</b> 4000K <sup>1</sup>			<b>-1400</b> Wood Joist Bar Hanger	

Notes:  
1 - 2700K, 3000K and 4000K color temperatures available by special order only. Consult Factory.

#### LED Light Engine:

- Powered by Intense LED Modules utilizing Cree® XPG LED's
- No Visible Phosphor
- Nominal input power = 14W
- Nominal delivered lighting output = 700lm
- 2700K/3000K/3500K/4000K color temperatures
- 85 CRI
- LED's mounted to die cast aluminum heat sink
- 50,000 hours average rated life at 70% output
- Fixture should not be installed in applications with an ambient temperature above 50°C.
- Applications with an installation above 50°C will result in reduced lamp life and void warranty
- LED module is easily upgradable to accommodate future solid state lighting technology

#### Optical System:

Specification grade reflector with 1.2mm thickness. Reflector available in clear specular or haze. Architectural, discrete polished self flange standard. Optional painted white flange is available. Meets RP-1 requirements with controlled light distribution at a 55° cut off.

#### Electrical System:

- 120V/277V 50/60Hz input
- 700mA constant current output
- Class 2 power supply
- Over-voltage, over current and short circuit protection: auto recovery
- MTBF > 100,000 hours
- Dimming Options:
- 0-10V dimming down to 5%
- Lutron Hi-lume® down to 1%

#### Installation:

Luminaire is type Non-IC. Insulation must be kept at a minimum of 3" away from fixture. Universal mounting brackets included. Compatible with C-channel, flat bar, wood joist bar hanger and EMT. Bar hangers must be ordered separately. C-channel are recommended for T-bar ceilings. Bar hangers must be ordered separately.

#### Emergency Backup:

Remote test switch included. Emergency driver operates LED load of up to 4.5 Watts at a maximum rated current (410 mA) for a minimum of 90 minutes. See submittal sheet IB-BSL23C for specifications.


#### Accessories:

Open reflector only compatible with Infuz™ accessories. See accessories specification sheet.

#### Listing/Warranty:

- ETL listed to US and Canadian standards for damp locations
- LM-80 Certified
- 5 Year Limited Warranty



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				ISSUE DATE	5/29/2012
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FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
RECESSED SMALL-APERTURE LED LENSED DOWNLIGHT FOR DAMP LOCATIONS		INTENSE LIGHTING ILM4-700-30-VOLTS REFLECTOR IC422-HZ-SFW	LAMP	WARM WHITE LED INTEGRAL 3000 KELVIN 85 CRI 50,000 HOURS	
			WATTAGE	14	
LOCATION	1F RETAIL AT COLUMNS		VOLTAGE	PER EE	
			SOURCE	LED	

## 4" Decorative Recessed Accessories



Infuz decorative accessories may be used with select architectural reflectors. Accessory kits are factory installed. Drop mount options are compatible with LED and compact fluorescent lamp types.

**Compatible Reflectors:** IC430, IC420, and IC480.

### How to Order:

1. Enter your specified reflector under section "A".
2. Specify the Infuz adder on the reflector part number. (Example: IC480C-SF-IFZDM-5-MO)



Infuz Drop Mount

Order Matrix | Example: IC430-IFZDM-1-SN

A	B	C	D
<b>A</b> Reflector		<b>C</b> Material	
Specify Compatible Reflector		-1 Red Crush	
		-2 Blue Crush	
		-3 Tiger Thatch	
		-4 Linea Vert	
<b>B</b> Series		-5 Bronze Weave	
-IFZDM Drop Mount		-6 Fossil Leaf	
		<b>D</b> Drop Hardware	
		-SN Satin Nickel	
		-MO Mocha	



Type: Red Crush  
Item Code: 1



Type: Linea Vert  
Item Code: 4



Type: Blue Crush  
Item Code: 2



Type: Bronze Weave  
Item Code: 5




Type: Tiger Thatch  
Item Code: 3



Type: Fossil Leaf  
Item Code: 6

Custom material available by special order. Minimum order and lead times may apply. Consult factory.

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				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
SURFACE-MOUNTED LED LENSED DOWNLIGHTWITH 40 DEGREE DISTRIBUTION FOR DAMP LOCATIONS		SOLID STATE LUMINAIRES DC1.0-S-3K-FL-<FINISH>	LAMP	WARM WHITE LED INTEGRAL 3000 KELVIN 85 CRI 50,000 HOURS	
			WATTAGE	18	
LOCATION	MAIN STAIRS		VOLTAGE	120/277	
			SOURCE	LED	




## DecoCylinder 1.0 / DecoCylinder 1.1

Decorative Surface Indoor/Outdoor Flat Back  
Cylinder Accent Light

- 3K or 4K uniform white light application
- 15° spot, 25° narrow flood and 40° flood distributions
- Wall, ceiling, or pendant mounting for optimum flexibility
- Die cast aluminum for maximum durability
- Four standard colors and custom finish options
- 120-277VAC line voltage connection
- 0-10V dimming option





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				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
SURFACE-MOUNTED LED LENSED DOWNLIGHT WITH 40 DEGREE DISTRIBUTION FOR DAMP LOCATIONS		SOLID STATE LUMINAIRES DC1.0-S-3K-FL-<FINISH>	LAMP	WARM WHITE LED INTEGRAL 3000 KELVIN 85 CRI 50,000 HOURS	
			WATTAGE	18	
LOCATION	MAIN STAIRS		VOLTAGE	120/277	
			SOURCE	LED	

## Deco Series DecoCylinder 1.0 / DecoCylinder 1.1

**SSL**  
solid state luminaires

### Catalog Number

model	mounting	color temperature	optics	finish	options	accessories
DC1.0	W - Wall Mount	3K - Warm White	SP - 15° Spot	BK - Black	D - Dimming 0-10V	EMR - Emergency
DC1.1	P - Pendant Mount	4K - Cool White	NFL - 25° Narrow Flood	BZ - Bronze	EC - E-Coat	Backup-Remote
	S - Surface Mount		FL - 40° Flood	CC - Custom Color	RGB - Consult Factory	(120V)
				SL - Silver		
				WH - White		

### Specifications

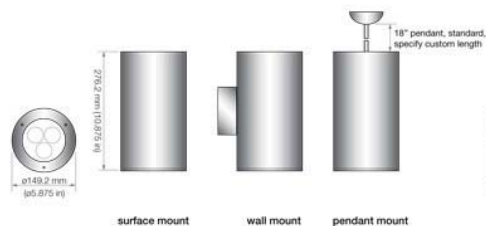
Item	specifications	details
Output	beam spread	15° spot, 25° narrow flood, 40° flood
	lumens	DC1.0 - 1183 DC1.1 - 1575
	LEDs per fixture	DC1.0 - 9 DC1.1 - 12
	driver efficiency	DC1.0 - 94% DC1.1 - 93%
	lifetime	> 50,000 hours / L70 or better
Color	lumen maintenance	meets Energy Star® lumen maintenance requirement
	color consistency / CRI	≤ 4 step MacAdam Ellipse / CRI: ≥ 80
	color temperature	3K CCT, 4K CCT
Electrical	input voltage	120-277VAC
	power consumption	DC1.0 - 18W DC1.1 - 23 W
	RFI	EMC (compatible and resistant)
Control	dimming	0-10V
	power supply	Class II
Physical	dimensions (h x ø)	DC1.0 - 10 1/4" x 5 1/4" DC1.1 - 13" x 7 1/4"
	weight	DC1.0 - 6 lbs DC1.1 - 10 lbs
	housing	extruded and die cast aluminum
	lens	tempered glass
	junction temperature	DC1.0 - 78°C @ T <sub>a</sub> 25°C DC1.1 - 79°C @ T <sub>a</sub> 25°C
	operating temperature	-20°C to 50°C
Documentation	certifications	ETL / cETL
	standards	UL-Class II, IES LM-79, LM-80
Warranty	IP rating	IP65
	5 year limited warranty	See website for details



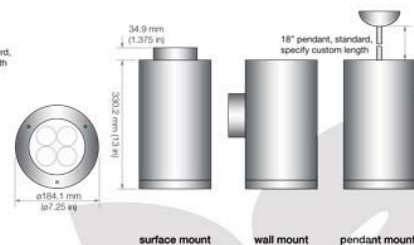
Tolerance +/- .5%

### Dimensions

DecoCylinder 1.0



DecoCylinder 1.1



### Construction

Marine grade, corrosion resistant, heavy walled, high pressure die cast aluminum and extruded aluminum construction. Listed for wet location (down position only). IP65 rating. Lens is heat resistant, clear, tempered glass. Emergency battery backup remote up to 25W also available.

### Power Supply Requirements

Integral inverter and driver with a variable input voltage from 120-277VAC.

Linear

Power/Control

Downlight


Deco

Stepite

InGrade

SiteLite

149

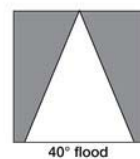
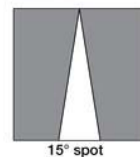
 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>		<h1>MARINER'S POINTE</h1> <h2>NEWPORT BEACH, CALIFORNIA</h2>		<b>TYPE</b>  <b>ISSUE DATE</b> 5/29/2012 <b>REVISED</b>	<b>D2</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>		<b>TECHNICAL INFORMATION</b>	
SURFACE-MOUNTED LED LENSED DOWNLIGHT WITH 40 DEGREE DISTRIBUTION FOR DAMP LOCATIONS		SOLID STATE LUMINAIRES DC1.0-S-3K-FL-<FINISH>		<b>LAMP</b>	WARM WHITE LED INTEGRAL 3000 KELVIN 85 CRI 50,000 HOURS
				<b>WATTAGE</b>	18
<b>LOCATION</b>	MAIN STAIRS			<b>VOLTAGE</b>	120/277
				<b>SOURCE</b>	LED

### Deco Series DecoCylinder 1.0 / DecoCylinder 1.1

#### Performance

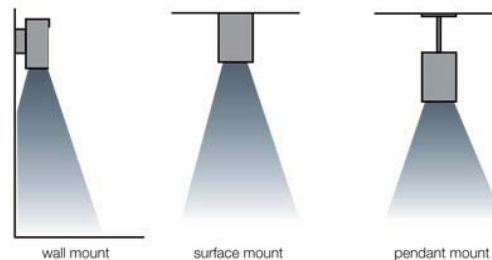
Model	Connected Wattage	Delivered Lumens	
		3K	4K
DecoCylinder 1.0	18	964	1236
DecoCylinder 1.1	23	1230	1578

#### Optics

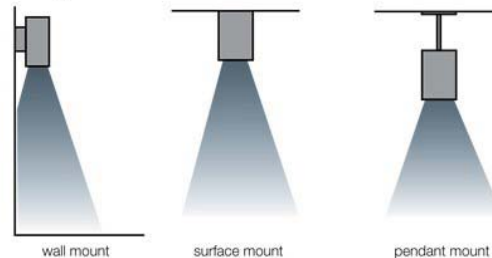


#### Orientation Options

##### DecoCylinder 1.0



##### DecoCylinder 1.1




#### System Efficacy



While PAR lamps are very good at directing light where it is needed, they are still incandescent lamps with poor energy efficiency and service life. LEDs, when combined with effective optics, provide strong directional control with higher total efficiency, while delivering significantly longer service life.

	Product	Initial Performance			Mean Performance		
		Fixture Lumens	Fixture Watts	Fixture Efficacy	Fixture Lumens	Fixture Watts	Fixture Efficacy
SSL	DC1.1-4K-NFL	1578	23	54.9	1073	23	46.7
	DC1.1-3K-NFL	1230	23	42.8	836	23	36.3
	75W PAR30 NFL Bracket	846	75	11.3	761	75	10.1
Conv.	60W PAR38 NFL Bracket	720	60	12.0	648	60	10.8
	75W PAR38 NFL Bracket	945	75	12.6	850	75	11.3

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				ISSUE DATE		5/29/2012					
				REVISED							
FIXTURE DESCRIPTION				MANUFACTURER & PART #				TECHNICAL INFORMATION			
PENDANT-MOUNTED DIRECT-INDIRECT LINEAR FLUORESCENT LUMINAIRE FOR DAMP LOCATIONS WITH ONE LAMP IN CROSS-SECTION - 8' LENGTH				PEERLESS AEM2-1-28T5-WHR-CWIN-8 FT-R8-<VOLTS>-GEB10-SCT-L/LP-<VERIFY MOUNTING>-27-<FINISH>-DL-DU FINISH: TBD				LAMP		(2) F28T5/830/ECO 3000 KELVIN 85 CRI 30,000 HOURS	
								WATTAGE		60	
								VOLTAGE		PER EE	
LOCATION		1F GARAGE						SOURCE		ELECTRONIC FLUORO	



# Aero®

## Continuous Window T5 / T5HO

Type:  
Project:

SPECIFICATIONS

Modular / 6" x 2" Continuous Window

AEM2

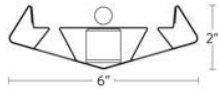
### CATALOG NUMBER

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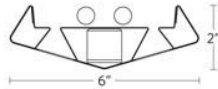
Examples: AEM2 154T5HO CWIN 40FT R12 277 GEB10 2SE EL SCT LP841 F1/24 GLR — AEM5 254T5HO CWIN 32FT R12 120 GEB10 DCT LP830 F1/12 C518

### AVAILABLE FIXTURES

☐ AEM2 - 1 CWIN



☐ AEM2 - 2 CWIN



### SPECIFICATIONS

#### Construction

Housing one-piece cold-rolled steel with flat endplate forming a 6 1/2" x 2 3/4" angular channel.

#### Reflectors

Die-formed highly reflective white reflector or die-formed highly reflective specular reflector.

#### Shielding

Die-punched perforated hole pattern running continuously along fixture module.

#### Finish

Fine-textured white paint as standard.

#### Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. C-UL listed. For special circuiting, consult factory.


#### Fixture Length

4', 8', and 12' lengths in a single section for exact suspension spacing of 4', 8', and 12'. For total fixture length add 1/2" for each end-cap. Using internal joiners, 4', 8', and 12' sections can be joined to form longer-length fixtures.

### ORDERING LOGIC

Use guide below to order complete fixture runs from four feet to one-hundred feet in increments of four.

FT									
Fixture	# of Lamps in Cross Section	Lamp Type	Reflector	Shielding	Nominal Row Length <sup>1</sup>	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules <sup>2</sup>
AEM2	1 2	54T5HO 28T5	WHR White Reflector SPR Specular Reflector	Blank CWIN		R4 4' section R8 8' section R12 12' section	120 277 347	GEB10 <10% THD ELECTRONIC ADEZ <sup>4,5</sup> Advance Mark 10 dimming ECOT10 <sup>4</sup> Lutron ECO-10 dimming OSDIM <sup>4,5</sup> Osram 0-10v dimming <i>Reference <a href="#">Ballast Chart</a> on website or consult factory for other options.</i>	Blank No Emergency 1SE 1 section 2SE 2 sections XSE X sections
Emergency Type <sup>1,3</sup>	Switching	Lamp Color	Mounting Type /		Overall Suspension		Finish	Options	
Blank No Emergency or Night Light	SCT Single Circuit	L/LP No Lamp LPB30 3000K 80+ CRI	F1	T-Bar Ceiling (Universal Mounting Bracket)	12	12" overall suspension	C110 Painted Silver to Match	ACG Adjustable Cable Grippers	
EL Emergency Battery Pack	DCT Dual Circuit	LPB35 3500K 80+ CRI LPB41 4100K 80+ CRI	F1A	T-Bar Ceiling (UMB with Integrated J-Box)	15	15" overall suspension	Anodized Aluminum	APF Alternate Power Feed	
EC Emergency / Night Light Circuit		LPB30 <sup>3</sup> 3000K 80+ CRI Premier Lamp LPB35 <sup>3</sup> 3500K 80+ CRI Premier Lamp	F2	Hard Ceiling (Horizontal J-box)	18	18" overall suspension	C518 Textured White (Low Gloss)	CP Chicago Plenum	
EN Emergency Battery Pack with Night Light Circuit		LPB41 <sup>3</sup> 4100K 80+ CRI Premier Lamp <i>Reference <a href="#">Lamp Chart</a> on website or consult factory for other options.</i>	F4A	IDS Clip 1/4" Tee	21	21" overall suspension	C099 Custom Color	DL Damp Location Label	
			F4B	IDS Clip 1/2" Tee	24	24" overall suspension		ELH EM Through wire w/ Separate Feed	
			F4C	IDS Clip Screw Slot	XX	XX" overall suspension		ELS EM Through Wire w/ Single Feed	
								GLR Fusing (Fast Blow)	
								GMF Fusing (Slow Blow)	
								NYC New York City Code	
<b>Notes:</b>									
1 Must be in 4' increments.									
2 Sections per run; optional. Maximum # of emergency sections per run should not exceed number of fixture sections, minus one. For additional sections, consult factory.									
3 Optional. EC and EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed required for each EL, EC or EN unless ELH specified.									
4 Not available in 347 volt.									
5 Not available with 28T5 Lamp Type.									
6 Not available with 54T5HO Lamp Type.									

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<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>		<b>TECHNICAL INFORMATION</b>	
PENDANT-MOUNTED DIRECT-INDIRECT LINEAR FLUORESCENT LUMINAIRE FOR DAMP LOCATIONS WITH TWO LAMPS IN CROSS SECTION- 16' LENGTH		PEERLESS AEM2-1-28T5-WHR-CWIN-16 FT-R8-<VOLTS>- GEB10-SCT-L/LP-<VERIFY MOUNTING>-27- <FINISH>-DL-DU FINISH: TBD		<b>LAMP</b> (4) F28T5/830/ECO 3000 KELVIN 85 CRI 30,000 HOURS <b>WATTAGE</b> 120	
<b>LOCATION</b> 1F GARAGE				<b>VOLTAGE</b> PER EE <b>SOURCE</b> ELECTRONIC FLUORO	



# Aero®

## Continuous Window T5 / T5HO

SPECIFICATIONS

Modular / 6" x 2" Continuous Window

AEM2

Type:

Project:

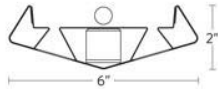
### CATALOG NUMBER

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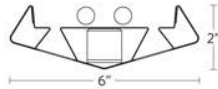
Examples: AEM2 154TSHO CWIN 40FT R12 277 GEB10 2SE EL SCT LP841 F1/24 GLR — AEM5 254TSHO CWIN 32FT R12 120 GEB10 DCT LP830 F1/12 C518

### AVAILABLE FIXTURES

☐ AEM2 - 1 CWIN



☐ AEM2 - 2 CWIN



### SPECIFICATIONS

#### Construction

Housing one-piece cold-rolled steel with flat endplate forming a 6 1/2" x 2 3/4" angular channel.

#### Reflectors

Die-formed highly reflective white reflector or die-formed highly reflective specular reflector.

#### Shielding

Die-punched perforated hole pattern running continuously along fixture module.

#### Finish

Fine-textured white paint as standard.

#### Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. C-UL listed. For special circuiting, consult factory.

#### Fixture Length

4', 8', and 12' lengths in a single section for exact suspension spacing of 4', 8', and 12'. For total fixture length add 1/2" for each end-cap. Using internal joiners, 4', 8', and 12' sections can be joined to form longer-length fixtures.

### ORDERING LOGIC

Use guide below to order complete fixture runs from four feet to one-hundred feet in increments of four.

Fixture	# of Lamps in Cross Section	Lamp Type	Reflector	Shielding	Nominal Row Length <sup>1</sup>	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules <sup>2</sup>
AEM2	1 2	54TSHO 28T5	WHR White Reflector SPR Specular Reflector	Blank CWIN		R4 4' section R8 8' section R12 12' section	120 277 347	GEB10 <10% THD ELECTRONIC ADEZ <sup>4,5</sup> Advance Mark 10 dimming ECOT10 <sup>4</sup> Lutron ECO-10 dimming OSDIM <sup>4,5</sup> Osram 0-10v dimming <i>Reference Ballast Chart on website or consult factory for other options.</i>	Blank No Emergency 1SE 1 section 2SE 2 sections XSE X sections
Emergency Type <sup>1,3</sup>	Switching	Lamp Color	Mounting Type	Overall Suspension	Finish	Options			
Blank No Emergency or Night Light	SCT Single Circuit	L/LP No Lamp LP830 3000K 80+ CRI LP835 3500K 80+ CRI	F1 T-Bar Ceiling (Universal Mounting Bracket)	12 12" overall suspension 15 15" overall suspension 18 18" overall suspension	C110 Painted Silver to Match Anodized Aluminum	ACG Adjustable Cable Grippers APF Alternate Power Feed CP Chicago Plenum			
EL Emergency Battery Pack	DCT Dual Circuit	LP841 4100K 80+ CRI LP830 <sup>3</sup> 3000K 80+ CRI Premier Lamp LP835 <sup>3</sup> 3500K 80+ CRI Premier Lamp LP841 <sup>3</sup> 4100K 80+ CRI Premier Lamp <i>Reference Lamp Chart on website or consult factory for other options.</i>	F1A T-Bar Ceiling (UMB with Integrated J-Box) F2 Hard Ceiling (Horizontal J-box) F4A IDS Clip 1/4" Tee F4B IDS Clip 1/2" Tee F4C IDS Clip Screw Slot	21 21" overall suspension 24 24" overall suspension XX XX" overall suspension	C518 Textured White (Low Gloss) C099 Custom Color	DL Damp Location Label DUC Dust Cover ELH EM Through wire w/ Separate Feed ELS EM Through Wire w/ Single Feed GLR Fusing (Fast Blow) GMF Fusing (Slow Blow) NYC New York City Code			
EC Emergency / Night Light Circuit									
EN Emergency Battery Pack with Night Light Circuit									

**Notes:**

- 1 Must be in 4' increments.
- 2 Sections per run; optional. Maximum # of emergency sections per run should not exceed number of fixture sections, minus one. For additional sections, consult factory.
- 3 Optional. EC and EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed required for each EL, EC or EN unless ELH specified.


- 4 Not available in 347 volt.
- 5 Not available with 28T5 Lamp Type.
- 6 Not available with 54TSHO Lamp Type.

#### Notes:

- Must be in 4' increments.
- Sections per run; optional. Maximum # of emergency sections per run should not exceed number of fixture sections, minus one. For additional sections, consult factory.
- Optional. EC and EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed required for each EL, EC or EN unless ELH specified.

- Not available in 347 volt.
- Not available with 28T5 Lamp Type.
- Not available with 54TSHO Lamp Type.



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<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>		<b>TECHNICAL INFORMATION</b>
PENDANT-MOUNTED DIRECT-INDIRECT LINEAR FLUORESCENT LUMINAIRE FOR DAMP LOCATIONS WITH TWO LAMPS IN CROSS SECTION- 24' LENGTH		PEERLESS AEM2-1-28T5-WHR-CWIN-24 FT-R8-<VOLTS>- GEB10-SCT-L/LP-<VERIFY MOUNTING>-27- <FINISH>-DL-DU FINISH: TBD		<b>LAMP</b> (6) F28T5/830/ECO 3000 KELVIN 85 CRI 30,000 HOURS <b>WATTAGE</b> 180 <b>VOLTAGE</b> PER EE <b>SOURCE</b> ELECTRONIC FLUORO
<b>LOCATION</b>	1F GARAGE			



# Aero®

## Continuous Window T5 / T5HO

SPECIFICATIONS

Modular / 6" x 2" Continuous Window

AEM2

### CATALOG NUMBER

FT

Examples: AEM2 154TSHO CWIN 40FT R12 277 GEB10 2SE EL SCT LP841 F1/24 GLR — AEM5 254TSHO CWIN 32FT R12 120 GEB10 DCT LP830 F1/12 C518

### AVAILABLE FIXTURES

☐ AEM2 - 1 CWIN

☐ AEM2 - 2 CWIN

### SPECIFICATIONS

#### Construction

Housing one-piece cold-rolled steel with flat endplate forming a 6 1/2" x 2 3/4" angular channel.

#### Reflectors

Die-formed highly reflective white reflector or die-formed highly reflective specular reflector.

#### Shielding

Die-punched perforated hole pattern running continuously along fixture module.

#### Finish

Fine-textured white paint as standard.

#### Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. C-UL listed. For special circuiting, consult factory.

#### Fixture Length

4', 8', and 12' lengths in a single section for exact suspension spacing of 4', 8', and 12'. For total fixture length add 1/2" for each end-cap. Using internal joiners, 4', 8', and 12' sections can be joined to form longer-length fixtures.

### ORDERING LOGIC

Use guide below to order complete fixture runs from four feet to one-hundred feet in increments of four.

Fixture	# of Lamps in Cross Section	Lamp Type	Reflector	Shielding	Nominal Row Length <sup>1</sup>	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules <sup>2</sup>
AEM2	1 2	54TSHO 28T5	WHR White Reflector SPR Specular Reflector	Blank CWIN		R4 4' section R8 8' section R12 12' section	120 277 347	GEB10 <10% THD ELECTRONIC ADEZ <sup>4,5</sup> Advance Mark 10 dimming ECOT10 <sup>4</sup> Lutron ECO-10 dimming OSDIM <sup>4,5</sup> Osram 0-10v dimming Reference Ballast Chart on website or consult factory for other options.	Blank No Emergency 1SE 1 section 2SE 2 sections XSE X sections
Emergency Type <sup>1,3</sup>	Switching	Lamp Color	Mounting Type	Overall Suspension	Finish	Options			
Blank No Emergency or Night Light	SCT Single Circuit	L/LP No Lamp LP830 3000K 80+ CRI LP835 3500K 80+ CRI	F1 T-Bar Ceiling (Universal Mounting Bracket)	12 12" overall suspension 15 15" overall suspension 18 18" overall suspension	C110 Painted Silver to Match Anodized Aluminum	ACG Adjustable Cable Grippers APF Alternate Power Feed CP Chicago Plenum			
EL Emergency Battery Pack	DCT Dual Circuit	LP841 4100K 80+ CRI LP830 <sup>3</sup> 3000K 80+ CRI Premier Lamp LP835 <sup>3</sup> 3500K 80+ CRI Premier Lamp LP841 <sup>3</sup> 4100K 80+ CRI Premier Lamp Reference Lamp Chart on website or consult factory for other options.	F1A T-Bar Ceiling (UMB with Integrated J-Box) F2 Hard Ceiling (Horizontal J-box) F4A IDS Clip 1/4" Tee F4B IDS Clip 1/2" Tee F4C IDS Clip Screw Slot	21 21" overall suspension 24 24" overall suspension XX XX" overall suspension	C518 Textured White (Low Gloss) C099 Custom Color	DL Damp Location Label DUC Dust Cover ELH EM Through Wire w/ Separate Feed ELS EM Fusing (Fast Blow) GLR Fusing (Slow Blow) GMF Fusing (Slow Blow) NYC New York City Code			
EC Emergency / Night Light Circuit									
EN Emergency Battery Pack with Night Light Circuit									

#### Notes:

- Must be in 4' increments.
- Sections per run; optional. Maximum # of emergency sections per run should not exceed number of fixture sections, minus one. For additional sections, consult factory.
- Optional. EC and EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed required for each EL, EC or EN unless ELH specified.

- Not available in 347 volt.
- Not available with 28T5 Lamp Type.
- Not available with 54TSHO Lamp Type.


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AEM-5

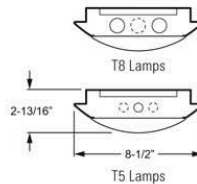
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				ISSUE DATE		5/29/2012			
				REVISED					
FIXTURE DESCRIPTION			MANUFACTURER & PART #			TECHNICAL INFORMATION			
SURFACE-MOUNTED, LENSED LINEAR FLUORESCENT LUMINAIRE FOR DAMP LOCATIONS WITH TWO LAMPS IN CROSS SECTION - 4' LENGTH			HE WILLIAMS ASM-S-4-2-28T5S-A-WET/CC-EB2-UNV			LAMP		(2) F28T5/830/ECO 3000 KELVIN 85 CRI 30,000 HOURS	
						WATTAGE		60	
LOCATION		GARAGE				VOLTAGE		PER EE	
						SOURCE		ELECTRONIC FLUORO	

ARCHITECTURAL SURFACE MOUNT										ASM
SUBMITTAL:										T5   T8
JOB:										
TYPE:										
VOLTAGE:										
<p>EXAMPLE: <b>ASM S - 4 - 1 54T5H - A - OPTIONS - EB1 - UNV</b></p> <p>             SERIES    MOUNTING TYPE    NOMINAL LENGTH    TOTAL LAMPS    WATTAGE/TYPE    SHIELDING    OPTIONS/ACCESSORIES    BALLAST TYPE    VOLTAGE           </p>										

### FEATURES

- Fixture can be surface mounted or semi-recessed<sup>1</sup> for ultra-low-profile look.
- Aircraft cable or pendant mount fixture for additional mounting choices.
- Listed as suitable for wet location under covered ceiling when specified with acrylic lens (surface mount only).
- Optional radial straight blade louver offers design flexibility.
- Lamps are shielded from direct view by white matte overlay on louver option.
- Decorative die-cast aluminum end caps provide high-end appearance.
- This fixture is proudly made in the USA.



### ORDERING INFORMATION

<b>SERIES</b>	<b>ASM</b>	Architectural Surface Mount
<b>MOUNTING TYPE</b> (See back for details)	<b>S</b>	Surface or suspended
	<b>R</b> <sup>1,3</sup>	Semi-recessed <sup>1,3</sup> (2" or 4", T5S or T5H only)
<b>NOMINAL LENGTH</b>		
	2	2'
	4	4'
	8	8'
<b>TOTAL LAMPS</b>		
	<b>T5 LAMPS</b>	
	1, 2, or 4	(1- or 2-lamp cross-section)
	<b>T8 LAMPS</b>	
	1, 2, 3, 4, or 6 <sup>1,2</sup>	(1-, 2-, or 3-lamp cross-section) <sup>1,2</sup>
<b>LAMP WATTAGE/TYPE</b>		
	14T5S	2", 14-watt T5
	24T5H	2", 24-watt T5HO
	28T5S	4", 28-watt T5
	32 <sup>1,2</sup>	4", 32-watt T8 <sup>1,2</sup>
	54T5H	4", 54-watt T5HO

### SHIELDING

<b>123W</b>	White cross-blade louver, 1" deep, 1 x 23-cell, with matte white acrylic overlay (2" T5 only)
<b>147W</b>	White cross-blade louver, 1" deep, 1 x 47-cell, with matte white acrylic overlay (4" T5 only)
<b>149W</b>	White cross-blade louver, 1" deep, 1 x 49-cell, with matte white acrylic overlay (4" T8 only)
<b>A</b>	Acrylic lens (not available for 2')

### OPTIONS/ACCESSORIES

	Not available with generic EM ballast options.
<b>RA-ASM</b> <sup>3</sup>	Row aligner (see back for details) <sup>3</sup>
<b>WET/CC</b>	Wet location under covered ceiling (acrylic lens, surface mount only)

### BALLAST TYPE

	Ballast size restricted to maximum ballast cross-section of 1-1/4"H x 1-3/16"W.
<b>EB1</b>	1-lamp electronic ballast
<b>EB2</b>	2-lamp electronic ballast
<b>EB3</b> <sup>4</sup>	3-lamp electronic ballast <sup>4</sup>
<b>EB2/2</b>	(2) 2-lamp electronic ballasts
<b>EB3/3</b> <sup>4</sup>	(2) 3-lamp electronic ballasts <sup>4</sup>

### VOLTAGE

<b>120</b>	120V
<b>277</b>	277V
<b>UNV</b>	120-277V
<b>347</b>	347V

### SPECIFICATIONS

**Housing** – .040" die-formed aluminum with die-cast decorative end caps.

**Shielding** – Ribbed acrylic diffuser.

**Finish** – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.


**Electrical** – Electronic ballast standard, instant start T8, program start T5, rated Class P.



**Mounting** – Semi-recessed in NEMA Type "G" ceiling, surface, or suspended.

**Labels** – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations. UL/CUL listed as wet location under covered ceiling when specified with WET/CC option (requires acrylic lens, surface mount only).

- <sup>1</sup> T8 is not available in semi-recessed.
- <sup>2</sup> All T8 fixtures restricted to one- and two-lamp micro-can ballasts.
- <sup>3</sup> Semi-recessed (ASMR) units not available with row aligner (RA-ASM).
- <sup>4</sup> Only available in T5S and T5H lamp types.

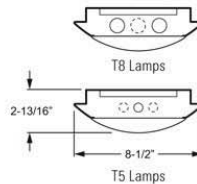


<div><div><div>THE</div><div></div><div>COMPANY</div></div><div><div>2 Executive Circle, Suite 290 Irvine, California 92614</div><div>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</div><div>LIGHTING DESIGN AND THEATRICAL CONSULTING</div></div></div>	<div>MARINER'S POINTE</div> <div>NEWPORT BEACH, CALIFORNIA</div>		TYPE	F2b
			ISSUE DATE	5/29/2012
			REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
SURFACE-MOUNTED, LENSED LINEAR FLUORESCENT LUMINAIRE WITH FOUR LAMPS IN CROSS SECTION - 8' LENGTH		HE WILLIAMS ASM-S-8-4-28T5S-A-WET/CC-EB2/2-UNV	LAMP	(4) F28T5/830/ECO 3000 KELVIN 85 CRI 30,000 HOURS
			WATTAGE	120
			VOLTAGE	PER EE
LOCATION	GARAGE		SOURCE	ELECTRONIC FLUORO

ARCHITECTURAL SURFACE MOUNT										ASM
SUBMITTAL:										T5   T8
JOB:										
TYPE:										
VOLTAGE:										
EXAMPLE: <b>ASM S - 4 - 1 54T5H - A - OPTIONS - EB1 - UNV</b> SERIES MOUNTING TYPE NOMINAL LENGTH TOTAL LAMPS WATTAGE/ TYPE SHIELDING OPTIONS/ ACCESSORIES BALLAST TYPE VOLTAGE										 Acrylic  Louver

### FEATURES

- Fixture can be surface mounted or semi-recessed<sup>1</sup> for ultra-low-profile look.
- Aircraft cable or pendant mount fixture for additional mounting choices.
- Listed as suitable for wet location under covered ceiling when specified with acrylic lens (surface mount only).
- Optional radial straight blade louver offers design flexibility.
- Lamps are shielded from direct view by white matte overlay on louver option.
- Decorative die-cast aluminum end caps provide high-end appearance.
- This fixture is proudly made in the USA.



### ORDERING INFORMATION

<b>SERIES</b>	<b>ASM</b>	Architectural Surface Mount
<b>MOUNTING TYPE</b> (See back for details)	<b>S</b>	Surface or suspended
	<b>R</b> <sup>1,3</sup>	Semi-recessed <sup>1,3</sup> (2' or 4', T5S or T5H only)
<b>NOMINAL LENGTH</b>	<b>2</b>	2'
	<b>4</b>	4'
	<b>8</b>	8'
<b>TOTAL LAMPS</b>	<b>T5 LAMPS</b>	1, 2, or 4 (1- or 2-lamp cross-section)
	<b>T8 LAMPS</b>	1, 2, 3, 4, or 6 <sup>1,2</sup> (1-, 2-, or 3-lamp cross-section) <sup>1,2</sup>
<b>LAMP WATTAGE/TYPE</b>	<b>14T5S</b>	2', 14-watt T5
	<b>24T5H</b>	2', 24-watt T5HO
	<b>28T5S</b>	4', 28-watt T5
	<b>32</b> <sup>1,2</sup>	4', 32-watt T8 <sup>1,2</sup>
	<b>54T5H</b>	4', 54-watt T5HO

### SHIELDING

<b>123W</b>	White cross-blade louver, 1" deep, 1 x 23-cell, with matte white acrylic overlay (2' T5 only)
<b>147W</b>	White cross-blade louver, 1" deep, 1 x 47-cell, with matte white acrylic overlay (4' T5 only)
<b>149W</b>	White cross-blade louver, 1" deep, 1 x 49-cell, with matte white acrylic overlay (4' T8 only)
<b>A</b>	Acrylic lens (not available for 2')

### OPTIONS/ACCESSORIES

	Not available with generic EM ballast options.
<b>RA-ASM</b> <sup>3</sup>	Row aligner (see back for details) <sup>3</sup>
<b>WET/CC</b>	Wet location under covered ceiling (acrylic lens, surface mount only)

### BALLAST TYPE

	Ballast size restricted to maximum ballast cross-section of 1-1/4"H x 1-3/16"W.
<b>EB1</b>	1-lamp electronic ballast
<b>EB2</b>	2-lamp electronic ballast
<b>EB3</b> <sup>4</sup>	3-lamp electronic ballast <sup>4</sup>
<b>EB2/2</b>	(2) 2-lamp electronic ballasts
<b>EB3/3</b> <sup>4</sup>	(3) 3-lamp electronic ballasts <sup>4</sup>

### VOLTAGE

<b>120</b>	120V
<b>277</b>	277V
<b>UNV</b>	120-277V
<b>347</b>	347V

### SPECIFICATIONS

**Housing** – .040" die-formed aluminum with die-cast decorative end caps.

**Shielding** – Ribbed acrylic diffuser.


**Finish** – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

**Electrical** – Electronic ballast standard, instant start T8, program start T5, rated Class P.

**Mounting** – Semi-recessed in NEMA Type "G" ceiling, surface, or suspended.

**Labels** – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations. UL/CUL listed as wet location under covered ceiling when specified with WET/CC option (requires acrylic lens, surface mount only).

- <sup>1</sup> T8 is not available in semi-recessed.
- <sup>2</sup> All T8 fixtures restricted to one- and two-lamp micro-can ballasts.
- <sup>3</sup> Semi-recessed (ASMR) units not available with row aligner (RA-ASM).
- <sup>4</sup> Only available in T5S and T5H lamp types.

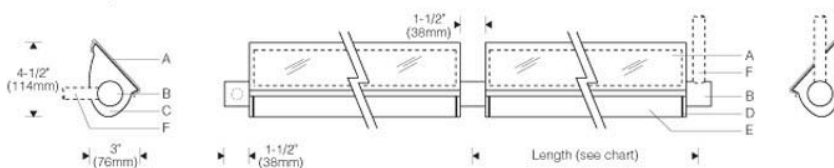
 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>		<h1>MARINER'S POINTE</h1> <h2>NEWPORT BEACH, CALIFORNIA</h2>	TYPE	F3
			ISSUE DATE	5/29/2012
			REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
COVE MOUNTED FLUORESCENT STRIP LIGHT WITH ASYMMETRICAL OPTICS		ELLIPTIPAR F151-T328-H-02-<VOLTS>-00-0	LAMP	(2) F28T5/830/ECO 3000 KELVIN 85 CRI 30,000 HOURS
			WATTAGE	60
LOCATION	1F GARAGE		VOLTAGE	PER EE
			SOURCE	ELECTRONIC FLUORO

### Uplighting Small outdoor, remote

T8 Fluorescent  
T5 Fluorescent

Style 151

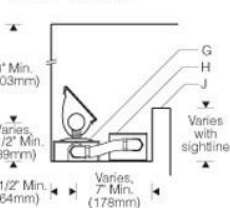
#### Cantilever / Pendant 1:8 Scale



#### Surface 1:8 Scale



#### Cove 1:12 Scale



Lamps	Length (center to center of hangers)	
	T8	T5
1 x 2'	27-1/8" (689mm)	25-1/16" (636mm)
1 x 3'	39-1/8" (994mm)	36-7/8" (936mm)
1 x 4'	51-1/8" (1299mm)	48-5/8" (1235mm)
1 x 5'	62-15/16" (1598mm)	60-5/8" (1539mm)
2 x 3'	75-5/8" (1921mm)	72-5/8" (1884mm)
2 x 4'	99-5/8" (2530mm)	96-5/8" (2454mm)
2 x 5'	123-5/8" (3140mm)	120-5/8" (3063mm)



### Specifications

- A** UV and impact resistant acrylic snap-on lens with EPDM gasket
- B** Machined aluminum mounting hubs with o-ring gaskets (black) (ordered separately)
- C** Die-cast aluminum end plates
- D** Aluminum reveal plates (black)
- E** Specular extruded aluminum reflector
- F** 1/2" rigid conduit, cantilever or pendant supports (by others)
- G** Outlet boxes, liquid tight flexible conduit and fittings (by others)
- H** Remote ballast in weatherproof aluminum enclosure
- J** Architectural cove (for design guidance, see Applications Section)

#### Finish:

Exterior surfaces - 6 stage pretreatment and electrostatically applied thermoset polyester powder coating for a durable abrasion, fade and corrosion resistant finish. Choice of semi-gloss colors (see ordering information). Mounting hubs finished black.

Reflector - extruded high purity aluminum with clear anodized specular finish. All hardware and components - non corrosive stainless steel or aluminum.

Snap-on lens - composite of impact resistant and UV stabilized acrylic. EPDM gasket for watertight operation when facing upward.

#### Mounting:

Machined aluminum mounting hubs (ordered separately) with internal 1/2" NPT threaded entry. 1/2" rigid conduit supports or fittings (by others). Allow 2.5 lbs/foot of reflector (example: 8' unit x 2.5 = 20 pounds).

Specify intermediate and end hubs. Reflector is adjustable about the hubs. Aiming is locked in position with set screws in the hubs.

REV. 6/04

#### Electrical:

Use 90°C wire for supply connections.

Remote electronic HPF thermally protected class P ballast rated for 0°F/-18°C starting. Weatherproof aluminum enclosure includes three 7/8" diameter entries and one 3/8" liquidtight conduit connector.

7' (2.1m) wire leads exit end of reflector. **Maximum wire length between remote ballast and fixture is 7' for two-lamp reflectors and 12' for one-lamp reflectors.**

For complete ballast specifications, see Accessories Section.

#### Standard:

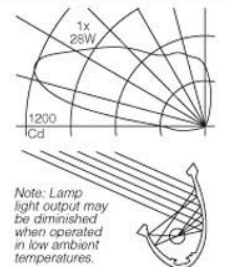
UL listed or CSA certified for wet locations when mounted horizontally. For positions other than horizontal, consult factory.

### Features

- T5 for precise optical control - unequaled uniformity for uplighting soffits, vaults, canopies from minimal setbacks
- Snap-on impact and UV resistant acrylic lens with EPDM gasket - watertight for uplighting orientations
- Durable aluminum construction - extruded reflector, die-cast end plates, machined hubs; powder coat finish

### Performance


Two parabolic reflector sections drive light across the overhead plane from one edge. An elliptical section redirects its light to a parabola and shields the lamp. Asymmetry is maximized resulting in high beam efficiency and superior surface uniformity. The fast "runback" minimizes wasted spill light.



For complete photometrics, visit [www.elliptipar.com](http://www.elliptipar.com)



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<div><div><div>THE</div><div></div><div>COMPANY</div></div><div><div>2 Executive Circle, Suite 290 Irvine, California 92614</div><div>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</div><div>LIGHTING DESIGN AND THEATRICAL CONSULTING</div></div></div>		MARINER'S POINTE  NEWPORT BEACH, CALIFORNIA		TYPE		F3			
				ISSUE DATE		5/29/2012			
				REVISED					
FIXTURE DESCRIPTION				MANUFACTURER & PART #		TECHNICAL INFORMATION			
COVE MOUNTED FLUORESCENT STRIP LIGHT WITH ASYMMETRICAL OPTICS				ELLIPTIPAR F151-T328-H-02-<VOLTS>-00-0		LAMP		(2) F28T5/830/ECO 3000 KELVIN 85 CRI 30,000 HOURS	
						WATTAGE		60	
LOCATION		1F GARAGE		VOLTAGE		PER EE			
				SOURCE		ELECTRONIC FLUORO			

### To Order

#### To form a Catalog Number

F 1 5 1 [ ] H [ ] [ ] [ ] [ ] [ ] [ ] [ ]

#### 1 Source

F = Linear fluorescent

#### 2 Style

151 = Small outdoor, remote ballast

#### 3 Lamp

[ ] [ ] [ ] = Lamp Code

Lamp Wattage (see chart below)  
Reflector Configuration, specify 1, 2 or 3  
(see chart below)

A = T8 Fluorescent  
T = T5 Fluorescent

Example: T328 = two nominal 4' reflectors, each for use with one 28W T5 lamp; one 2-lamp ballast

#### Reflector Configuration

1	1-Lamp Ballast 1-Lamp Reflector
2	2-Lamp Ballast 2-Lamp Reflector
3	2-Lamp Ballast 1-Lamp Reflector 1-Lamp Reflector

#### Lamp Wattage

Lamp Length (nominal)	Lamp Wattage (Lamp Number)		
	T8	T5	T5HO*
2'	17 (F17T8)	14 (F14T5)	24 (F24T5/HO)
3'	25 (F25T8)	21 (F21T5)	39 (F39T5/HO)
4'	32 (F32T8)	28 (F28T5)	55 (F54T5/HO)
5'	40 (F40T8)	35 (F35T5)	80 (F80T5/HO)

For complete lamp and ballast information, see Accessories Section. Standard T5 lamp color is 3000K / 80+ CRI. T8 lamps by others.

\* NEW T5HO amalgam lamps are available that produce > 90% of full light output over a broader temperature range than standard lamps - see [www.elliptipar.com](http://www.elliptipar.com) or consult factory for specifications.

Project: [ ]

#### 4 Mounting

H = For use with end and intermediate mounting hubs (order separately) with internal 1/2" NPT thread (1/2" rigid conduit supports or fittings by others).

Note: For positions other than horizontal, consult factory.

#### 5 Finish

02 = Semi-gloss white 99 = Custom RAL or computer matched color to be specified, consult sales representative.  
06 = Dark bronze  
07 = Silver  
08 = Semi-gloss black  
12 = Green

Note: Mounting hubs finished black

#### 6 Voltage/Ballast

Electronic:

1 = 120V  
2 = 277V  
3 = 347V

#### 7 Option

00 = No options  
0D = Remote electronic ballast for dry indoor location  
XX = For modification not listed, include detailed description. Consult factory prior to specification.

#### 8 Standard

0 = UL, Underwriters Laboratories  
J = CSA, Canadian Standards Association

#### Example

F151 - T128 - H - 08 - 1 - 000

Small outdoor fluorescent for use with one 28W T5 lamp in nominal 4 foot reflector. For use with mounting hubs (1/2" rigid conduit supports by others). Semi-gloss black powder coat finish. Remote 1-lamp 120V electronic ballast in weatherproof enclosure. UL.  
(Order end and intermediate mounting hubs separately.)



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### Style 151

Type: [ ]

#### Hubs Only (order separately)

For use with 1/2" rigid conduit or fittings (supplied by others). Order one hub **end kit** for each individually mounted luminaire or each row. For a continuous row, order one **intermediate** hub for each additional luminaire in the row. Example: a row of five reflectors requires 1 hub end kit and 4 intermediate hubs. **Note: Locate electrical feed at end of row.**

HOD [ ] 000 = End kit (includes 2 mounting hubs)  
5 Finish

HOC [ ] 000 = Intermediate mounting hub  
5 Finish

#### Hubs with Hangers (order separately)

Order one hanger **end kit** for each individually mounted luminaire or each row. For a continuous row, order one **intermediate** hanger for each additional luminaire in the row. Example: two rows of four reflectors requires 2 end kits and 6 intermediate hangers. **Note: Hubs included. End kit includes one electrical feed hanger - locate at end of row.**

HB [ ] [ ] 00 = Outdoor surface hanger

0 = UL  
J = CSA  
A = Intermediate  
B = End kit

HB [ ] [ ] [ ] = Outdoor pendant hanger

0 = UL  
J = CSA  
Length, in inches, specify 12, 18, 24, 30, 36, 42, or 48

5 Finish  
F = Intermediate  
G = End kit

HB [ ] [ ] [ ] = Outdoor cantilever hanger


0 = UL  
J = CSA  
12 = 12" (305mm)  
18 = 18" (460mm)  
24 = 24" (610mm)  
5 Finish  
C = Intermediate  
D = End kit

The external shapes of the asymmetric reflectors are trademarks of elliptipar. Certain products illustrated may be covered by applicable patents and patents pending. For a list of patents, see Contents pages. These specifications supersede all prior publications and are subject to change without notice. © 2007 elliptipar.

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		ISSUE DATE	5/29/2012
		REVISED	
FIXTURE DESCRIPTION	MANUFACTURER & PART #	TECHNICAL INFORMATION	
SURFACE-MOUNTED LED COVELIGHT FOR WET LOCATIONS WITH 2700K EMITTERS IN POLYCARBONATE TUBE.	J & J ELECTRONICS LLS-CB2-<LENGTHS PER DRAWINGS>-SW27-ES- <VERIFY CABLE LENGTH> MOUNTING CLIPS CGSL-MC TRANSFORMER C2288-24-<VOLTS>	LAMP	2700 KELVIN LED INTEGRAL 86 CRI 50,000 HOURS
		WATTAGE	4.6 W/LF 300 W/TRANSFORMER
LOCATION	CORNICES	VOLTAGE	PER EE
		SOURCE	LED

## COVEBRITE® 2 HI-OUTPUT LED LIGHTING

**C**OVEBRITE 2 LED lighting is an ideal linear lighting solution for cove lighting, retail and museum display, shelf lighting and other architectural applications where customizable lengths of seamless, linear lighting is required.

### PRODUCT SUMMARY

#### COVEBRITE 2 - I

**Interior U-Channel Fixtures** These open faced, double open ended fixtures allow various fixture lengths to be connected together. Fixtures can either be connected end-to-end for continuous straight runs or with jumper cables to allow fixtures to be "daisy chained" together for corner mounting and curved run installations.

#### COVEBRITE 2 - ILF

**Interior Lensed Fixtures** These complete fixtures come with either a clear or frosted lens. Each fixture provides a keyed connector pigtail on each end for power in/power out feeds. This allows multiple fixtures to "daisy chain" and butt together, eliminating fixture gap shadowing in continuous runs. The pigtails also facilitate corner mounting and curved run installations. Both 90° and 45° mounting clips are available as an optional accessory.

#### COVEBRITE 2 - ES

**Wet Location Tube Fixtures** These complete fixtures are listed for wet location applications. They are available in various lengths and include a factory attached power feed cable. The tube fixtures utilize clear, UV stabilized polycarbonate tubing and end cap components. UV polycarbonate mounting clips are available which allow 360° fixture rotation.

Date:	Type:
Project:	
Firm:	

### KEY FEATURES

- High output LEDs, up to 324 lumens per foot
- 6" Increments
- Dimmable
- Uniform 120° optic angle ensures even and saturated light output
- ANSI bin LEDs
- Dry and wet location fixture types
- Economical and easy to install
- Made in USA



### PRODUCT SPECIFICATIONS


Input Voltage	24VAC / 24VDC supplied from remote mounted transformers
Input Wattage (per foot)	4.6W / 24VAC 6.2W / 24VDC
Input Current (per foot)	.20A / 24VAC .26A / 24VDC
LED Type	Nichia ANSI Bin
LED Spacing	1"
LED Beam/Optic Angle	120°
CCT	2700K(+170K/-120K) 3500K(+210K/-300K) 5000K(+310K/-255K) 3000K & 4000K by special order (Consult factory)
CRI (minimum)	86 - 2700K 87 - 3500K 82 - 5000K
Lumen Output per IESNA LM-79-2008	24VAC powered 2700K = 154 lm/ft 3500K = 183 lm/ft 5000K = 199 lm/ft 24VDC powered 2700K = 253 lm/ft 3500K = 293 lm/ft 5000K = 324 lm/ft
Dimming	Magnetic Low Voltage type dimming switches
Max Footage per Power Run	See Transformers section
Operating Temperature	-40° to 104° F (-40° C to 40° C)
Certification	ETL listed (for US and Canada)
LED Warranty	5 Years

IES Files available online at [www.colorgloledlighting.com](http://www.colorgloledlighting.com). Specifications subject to change without notice.

### ORDERING INFORMATION

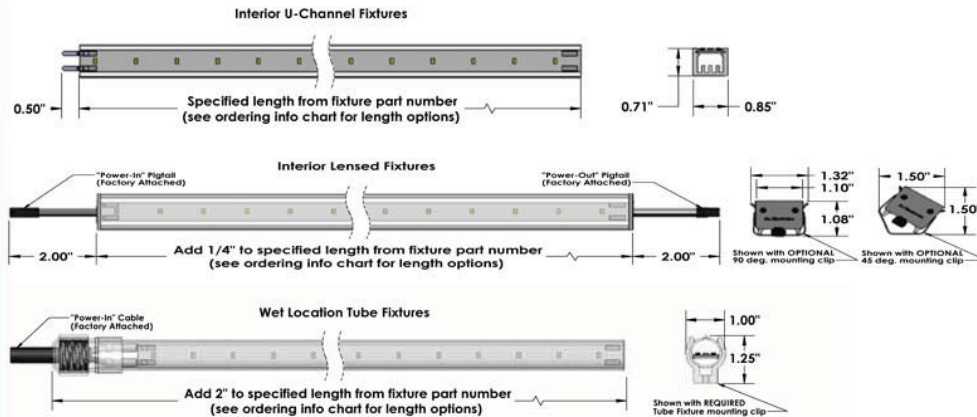
SERIES	MODEL	LENGTH*	COLOR TEMP	FIXTURE STYLE	CABLE LENGTH*	LENS STYLE*
LLS (Linear Light System)	CB2 (CoveBrite 2 Linear LED)	(Inches) * for I and ES fixture styles specify in 6" increments, 96" max. * for ILF fixture style specify: 6, 12, 18, 24, 36 or 48 For longer fixture lengths please consult factory	SW27 = 2700K SW35 = 3500K SW50 = 5000K	I = Interior U-Channel Fixture ILF = Interior Lensed Fixture ES = Wet Location Tube Fixture	* cable length for ES fixture style only Leave blank for I and ILF fixture styles 6 = 6' 15 = 15' 30 = 30' For different cable lengths please consult factory	* Lens style option for ILF fixture style only Leave blank for I and ES fixture styles C = Clear F = Frosted



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				<p><b>ISSUE DATE</b></p> <p>5/29/2012</p>	
				<p><b>REVISED</b></p>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>		
SURFACE-MOUNTED LED COVELIGHT FOR WET LOCATIONS WITH 2700K EMITTERS IN POLYCARBONATE TUBE.		J & J ELECTRONICS LLS-CB2-<LENGTHS PER DRAWINGS>-SW27-ES- <VERIFY CABLE LENGTH> MOUNTING CLIPS CGSL-MC TRANSFORMER C2288-24-<VOLTS>	<b>LAMP</b>	2700 KELVIN LED INTEGRAL 86 CRI 50,000 HOURS	
			<b>WATTAGE</b>	4.6 W/LF 300 W/TRANSFORMER	
<b>LOCATION</b>	CORNICES		<b>VOLTAGE</b>	PER EE	
			<b>SOURCE</b>	LED	

## COVEBRITE® HI-OUTPUT LED LIGHTING

### DIMENSIONS



### TRANSFORMERS

PART #	STYLE	INPUT	OUTPUT	CIRCUITS	LED Run Length
601-24	indoor	120Vac	24Vac	1 x 60 watt	1 x 12 foot max.
601-24-240	indoor	240Vac	24Vac	1 x 60 watt	1 x 12 foot max.
601-24-277	indoor	277Vac	24Vac	1 x 60 watt	1 x 12 foot max.
601-24-120-3R	indoor/outdoor	120Vac	24Vac	1 x 60 watt	1 x 12 foot max.
601-24-240-3R	indoor/outdoor	240Vac	24Vac	1 x 60 watt	1 x 12 foot max.
601-24-277-3R	indoor/outdoor	277Vac	24Vac	1 x 60 watt	1 x 12 foot max.
101-24	indoor	120Vac	24Vac	1 x 100 watt	1 x 20 foot max.
101-24-240	indoor	240Vac	24Vac	1 x 100 watt	1 x 20 foot max.
101-24-277	indoor	277Vac	24Vac	1 x 100 watt	1 x 20 foot max.
101-24-120-3R	indoor/outdoor	120Vac	24Vac	1 x 100 watt	1 x 20 foot max.
101-24-240-3R	indoor/outdoor	240Vac	24Vac	1 x 100 watt	1 x 20 foot max.
101-24-277-3R	indoor/outdoor	277Vac	24Vac	1 x 100 watt	1 x 20 foot max.
C2288-24	indoor/outdoor	120Vac	24Vac	3 x 96 watt	3 x 20 foot max.
C2288-24-240	indoor/outdoor	240Vac	24Vac	3 x 96 watt	3 x 20 foot max.
C2288-24-277	indoor/outdoor	277Vac	24Vac	3 x 96 watt	3 x 20 foot max.
481-24DCR	indoor/outdoor	120Vac	24Vdc	1 x 48 watt	1 x 7 foot max.
482-24DCR-240	indoor/outdoor	240Vac	24Vdc	1 x 48 watt	1 x 7 foot max.
483-24DCR-277	indoor/outdoor	277Vac	24Vdc	1 x 48 watt	1 x 7 foot max.
961-24DCR	indoor/outdoor	120Vac	24Vdc	1 x 96 watt	1 x 15 foot max.
962-24DCR-240	indoor/outdoor	240Vac	24Vdc	1 x 96 watt	1 x 15 foot max.
963-24DCR-277	indoor/outdoor	277Vac	24Vdc	1 x 96 watt	1 x 15 foot max.
C2240-24DCR	indoor/outdoor	120Vac	24Vdc	3 x 100 watt	3 x 15 foot max.
C2240-24DCR-240	indoor/outdoor	240Vac	24Vdc	3 x 100 watt	3 x 15 foot max.
C2240-24DCR-277	indoor/outdoor	277Vac	24Vdc	3 x 100 watt	3 x 15 foot max.

For additional transformers, please consult factory.

### ACCESSORIES


ITEM	PART #
<b>Wet Location Tube Fixture</b>	
Mounting Clip	CGSL-MC
<b>Interior U-Channel Fixture</b>	
6" Jumper Cable	LLS-CB-CA-6
1' Jumper Cable	LLS-CB-CA-12
3' Power / Jumper Cable	LLS-CB-CA-36
6' Power / Jumper Cable	LLS-CB-CA-72
12' Power Cable	LLS-CB-CA-144
16' Power Cable	LLS-CB-CA-192
20' Power Cable	LLS-CB-CA-240
30' Power Cable	LLS-CB-CA-360
<b>Interior Lensed Fixture</b>	
Mounting Clip, 90°	CGSL-ILF-MC90
Mounting Clip, 45°	CGSL-ILF-MC45
6" Jumper Cable	LLS-CB-CA-ILF-J-6
1' Jumper Cable	LLS-CB-CA-ILF-J-12
3' Jumper Cable	LLS-CB-CA-ILF-J-36
6' Jumper Cable	LLS-CB-CA-ILF-J-72
3' Power Cable	LLS-CB-CA-ILF-P-36
6' Power Cable	LLS-CB-CA-ILF-P-72
12' Power Cable	LLS-CB-CA-ILF-P-144
16' Power Cable	LLS-CB-CA-ILF-P-192
20' Power Cable	LLS-CB-CA-ILF-P-240
30' Power Cable	LLS-CB-CA-ILF-P-360



Manufactured by: J&J Electronics, Inc. | 6 Bendix, Irvine, CA 92618 | 800.735.4553 | 949.455.4460 | www.colorgloledlighting.com

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 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<h1>MARINER'S POINTE</h1> <h2>NEWPORT BEACH, CALIFORNIA</h2>	TYPE	L2
		ISSUE DATE	5/29/2012
		REVISED	
FIXTURE DESCRIPTION	MANUFACTURER & PART #	TECHNICAL INFORMATION	
SURFACE-MOUNTED LED COVELIGHT FOR WET LOCATIONS WITH 2700K EMITTERS WITH NARROW BEAMSPREAD	WINONA WSL-203W-<LENGTH>-20-27K-F-SGW-SE-STD PROVIDE APPROPRIATE REMOTE MAGNETIC TRANSFORMER IN CONCEALED, MAINTENANCE-ACCESSIBLE LOCATION	LAMP	2700 KELVIN LED INTEGRAL 86 CRI 50,000 HOURS
		WATTAGE	4.6 W/LF 300 W/TRANSFORMER
LOCATION	COVE ABOVE PARKING ENTRANCE	VOLTAGE	PER EE
		SOURCE	LED

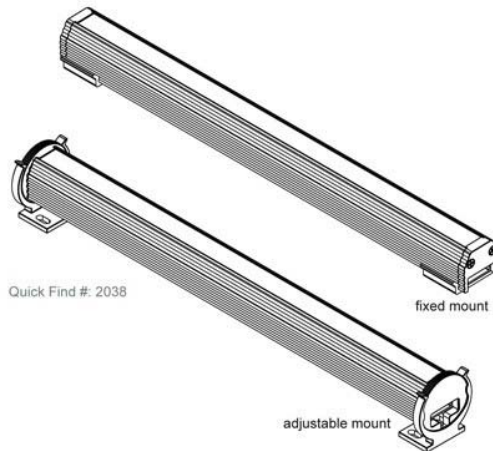
winonaLED

Project: \_\_\_\_\_

Qty: \_\_\_\_\_

Type: \_\_\_\_\_

wineline surface linear 203W damp/wet



The **Wineline 200 Series** are small scale linear LED luminaires and were designed to be the most powerful, reliable, and easiest to implement linear LED solution available. The model 203W is a high performance luminaire with robust construction suitable for exterior illumination.

**Beam Spreads:** Wineline 203W is available in two beam spreads of 30 and 110 degrees. See page 4 for photometric data.

**Color & Light Output:** The 200 Series utilizes Nichia 123B white LEDs in five standard colors. Model 203W features (24) LEDs/ft.

Color	Model 203W
ANSI-2700K White	101 lm/ft
ANSI-3000K White	119 lm/ft
ANSI-3500K White	123 lm/ft
ANSI-4000K White	132 lm/ft
non-ANSI- 5000K White	166 lm/ft

Results based on BALL test 15450  
110° beam spread  
Note:  
LM79 Tests- see page 4.

**Power:** Power consumption is 4.5W/ft. The Wineline 200 series operates on 24VAC using Magnetic Transformers. A wide range of remote transformers are available in 120V and 277V primary.

**Dimming:** Used with remote mounted 24VAC magnetic transformers which can be dimmed with commonly available low voltage magnetic dimming equipment.

**Mounting & Adjusting:** Both fixed and adjustable mounts combined with an integral wire tray allows the 200 Series to be used almost anywhere. The installer locates and fastens the mount clip, runs power feed lines, connects the fixture's wire leads to the feed lines and snaps the fixture in place. The low profile fixed mount is only 1/8" high and the adjustable mount allows for 300 degree rotation around the centerline of the fixture. See pages 2-3 for more mounting and adjustment information.

**Operating Temperature:** Minimum and Maximum ambient air temperatures around this luminaire shall not exceed -22°F to 122°F (-30°C to 50°C). Any application of this product should also take into consideration air flow and ventilation to ensure performance and reliability.

**Weight:**

12" - .57 lbs	36" - 1.53 lbs
18" - .79 lbs	42" - 1.78 lbs
24" - 1.04 lbs	48" - 2.03 lbs
30" - 1.29 lbs	



Wineline 203W is ETL listed for wet location. Complies with UL Standard 2108




IP66

Wineline Surface Linear - WSL	<b>WSL</b> series
model 203 damp/wet - 203W	<b>203W</b> model
Total Run Length in Feet 203W offered in 6" increments starting at 12" ex. 60FT = 60 foot run or Preconfigured Run Length Code see page 5 or To Be Determined TBD when run length unknown	 run length code
30° - 30 110° - 110	 beam spread
ANSI-binned 2700K - 27K ANSI-binned 3000K - 30K ANSI-binned 3500K - 35K ANSI-binned 4000K - 40K non-ANSI-binned 5000K - 50K	 LED code
non-dimming 24 volt AC - ND24V dimming 24 volt AC - DM24V	 voltage
fixed - F adjustable - A	 mount
natural (type III) anodized aluminum - NAA semi gloss black paint - SGB semi gloss white paint - SGW custom paint finish - CPF	 finish
surface end feed - SE recessed bottom feed - RB*	 power feed <small>*available on F (fixed mount) only</small>
none - X	 options
standard - STD modified - MOD	 special
Describe Modification: <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	





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			ISSUE DATE	5/29/2012
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FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
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			WATTAGE	4.6 W/LF 300 W/TRANSFORMER
LOCATION	COVE ABOVE PARKING ENTRANCE		VOLTAGE	PER EE
			SOURCE	LED

## winonaLED

### winline surface linear 203W wet

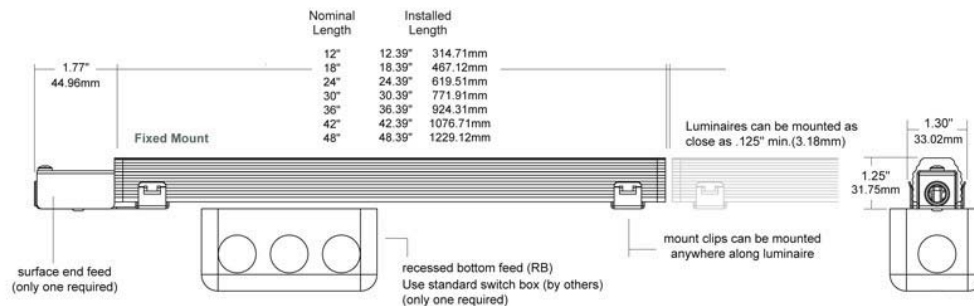
### mounting

The Winline 200 Series is available in lengths up to 48" in 6" increments starting at 12".

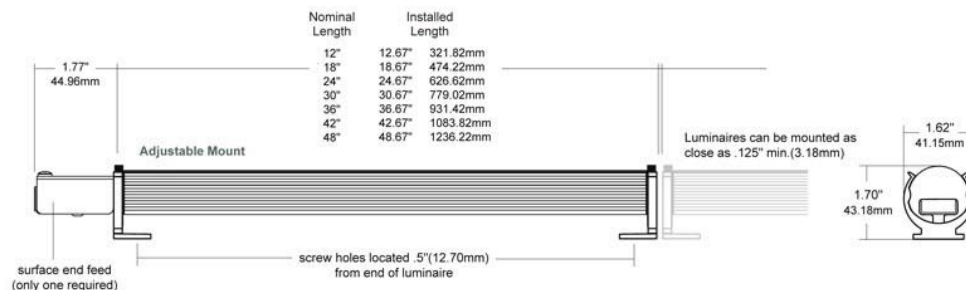
#### Mounting

The 200 Series can be mounted end-to-end with no shadows between units. Two unique mounting methods allow for flexible, quick and easy installation. The extruded aluminum body snaps into the mounting hardware and the included wiring cover encloses all wiring. Both mounts can be mounted in any position. The integral wire cover of the 203W keeps wiring organized and hidden no matter what orientation the fixture is in.


#### Fixed Mount



#### Adjustable Mount



The 200 Series Adjustable Mount allows for 300 degree continuous rotation. Luminaire can then be locked into place once desired position is established.

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			ISSUE DATE	5/29/2012
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			WATTAGE	4.6 W/LF 300 W/TRANSFORMER
LOCATION	COVE ABOVE PARKING ENTRANCE		VOLTAGE	PER EE
			SOURCE	LED

## winonaLED

### winline surface linear 203W wet

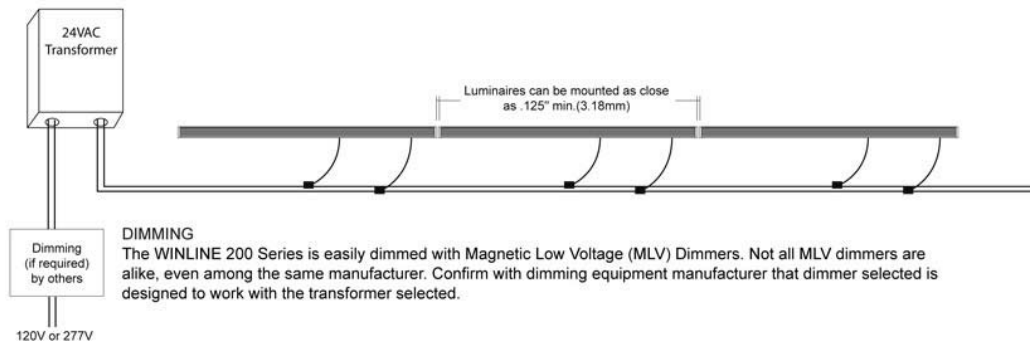
power, dimming, and wiring

The WINLINE 200 Series is to be powered by 24VAC only. **Do not connect directly to line voltage under any circumstance.** Connection to line voltage will permanently damage internal components and void manufacturer's warranty.

#### POWER REQUIREMENTS

WINLINE 203W consumes 4.5W/ft. Maximum single run length (from a single 24VAC tap) of WINLINE 203W is 48' (216W).

The WINLINE 200 series must be powered by a magnetic transformer. **Do not use electronic transformers.** Choose a transformer with adequate capacity. Total load should not exceed 80% of the rated output of the transformer at 24VAC.

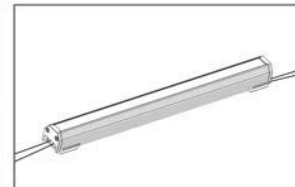
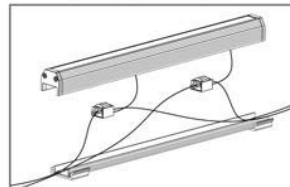
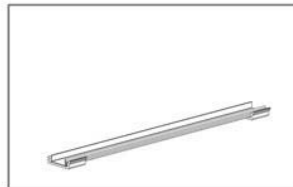


#### Fixed Mount

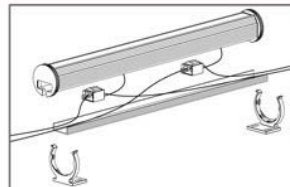
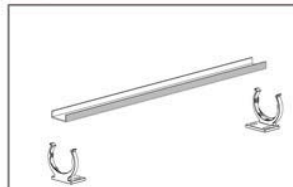
Step 1 Layout, Mark, and Mount the wiring tray and clips.

Step 2 Lay in power feed wires and make electrical connections with supplied connectors.

Step 3 Snap into place. Aim as required.




#### Adjustable Mount



#### REMOTE MOUNTING CONSIDERATIONS

The WINLINE 200 Series is powered from remote-mounted transformers. The maximum remote distance of the transformer is dependent on many factors including total LED load, wire size, distance from the transformer to the first fixture in each run, and starting voltage at the transformer.

The installer is to ensure that 24VAC is present at the beginning of the run. By using a combination of large-gauge wire and adjusting the output voltage of the transformer, the installer can compensate for voltage drop over long remote distances. The wiring from the start of the run to the last fixture on the run need only be 12 AWG.

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		ISSUE DATE	5/29/2012
		REVISED	
FIXTURE DESCRIPTION	MANUFACTURER & PART #	TECHNICAL INFORMATION	
SURFACE-MOUNTED LED COVELIGHT FOR WET LOCATIONS WITH 2700K EMITTERS WITH GRAZING OPTICS	LUMENPULSE LOG-RO-<VOLTS>-<LENGTH>-30K-10x60-UMP-WH -NO-ETE PROVIDE CONTINUOUS ROWS COMPRISED OF 3 & 4-FOOT FIXTURES	LAMP	3000 KELVIN LED INTEGRAL 86 CRI 120,000 HOURS
		WATTAGE	8.5 W/LF
LOCATION	FAÇADE LIGHT BOXES	VOLTAGE	PER EE
		SOURCE	LED

## SPECIFICATION SHEET

**lumenfacade™**  
WHITE & STATIC COLORS

Client: \_\_\_\_\_

Project name: \_\_\_\_\_

Order # \_\_\_\_\_

Type: \_\_\_\_\_ Qty: \_\_\_\_\_

### FEATURES AND BENEFITS

#### Physical :

- Low copper content extruded aluminum housing
- Available in 1', 2', 3' or 4' sections
- Electro-statically applied polyester powder coat finish
- Machined aluminum end caps and silicone gaskets
- Stainless steel hardware
- Clear tempered glass
- 10° x 10°, 10° x 60°, 30° x 60° or 60° x 60° optics
- IP66



#### Performance :

- Minimum 1fc (10.7 lux) @ 135 feet (41.1m) distance (4000K, 4' unit, 10° x 60° optic, HO version)
- 3,203 delivered lumens and 18,277 candelas at nadir (4000K, 4' unit, 10° x 60° optic, HO version)
- Lumen maintenance L70 @ 25°C - 120,000 hrs
- Lumen measurements comply with LM - 79 - 08 standard
- Resolution per foot or per fixture (see page 8)
- Operating temperatures: -25°C to 50°C

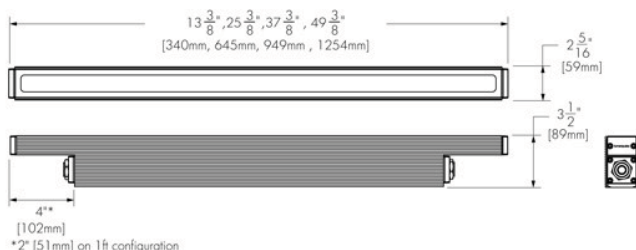


#### Wiring detail - non dimming

PIN ID	WIRE COLOR	USE
±	GREEN	GROUND
N	WHITE	NEUTRAL
1	BLACK	LIVE 120-277V

#### Wiring detail - dimming

PIN ID	WIRE COLOR	USE
±	GREEN	GROUND
N	WHITE	NEUTRAL
1	BLACK	LIVE 120-277V
2	RED	0-10V / DATA +
3	ORANGE	0-10V / DATA -



5 year warranty


1/11

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2012.01.26  
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Sustainable architectural LED lighting systems

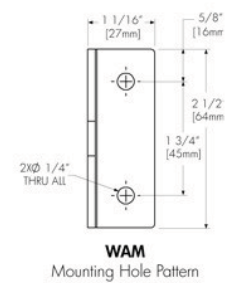
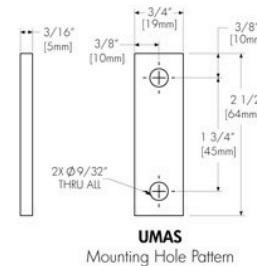
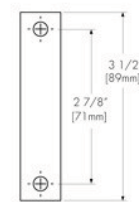
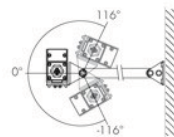
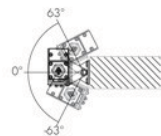
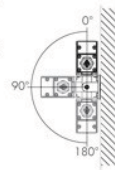
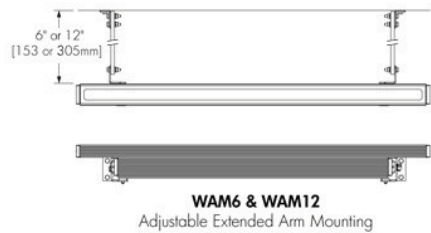
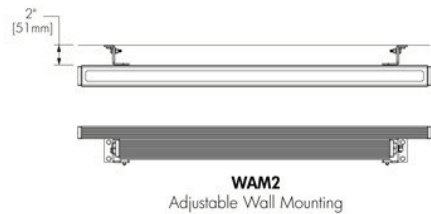
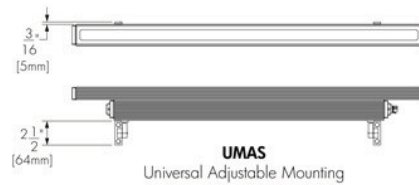
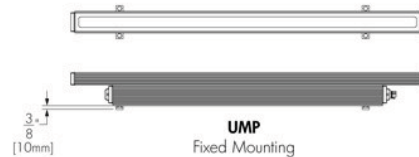
 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>		<p><b>MARINER'S POINTE</b></p> <p><b>NEWPORT BEACH, CALIFORNIA</b></p>		TYPE	<b>L3</b>
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				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
SURFACE-MOUNTED LED COVELIGHT FOR WET LOCATIONS WITH 2700K EMITTERS WITH GRAZING OPTICS		LUMENPULSE LOG-RO-<VOLTS>-<LENGTH>-30K-10x60-UMP-WH -NO-ETE PROVIDE CONTINUOUS ROWS COMPRISED OF 3 & 4-FOOT FIXTURES	LAMP	3000 KELVIN LED INTEGRAL 86 CRI 120,000 HOURS	
			WATTAGE	8.5 W/LF	
LOCATION	FAÇADE LIGHT BOXES		VOLTAGE	PER EE	
			SOURCE	LED	


## SPECIFICATION SHEET

**lumenfacade™**

WHITE & STATIC COLORS

### MOUNTING AND ADJUSTABLE PIVOTS



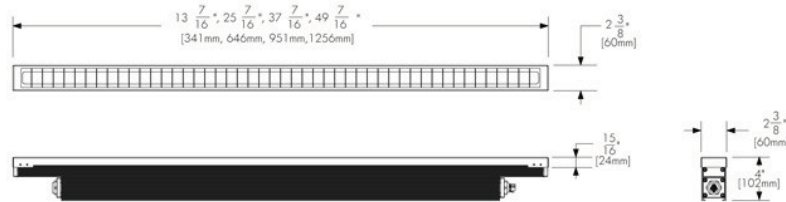
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			WATTAGE	8.5 W/LF	
LOCATION	FAÇADE LIGHT BOXES		VOLTAGE	PER EE	
			SOURCE	LED	

## SPECIFICATION SHEET

**lumenfacade™**

WHITE & STATIC COLORS

### LOUVER ACCESSORY INSTALLATION DETAIL



#### LOGRD


Radial Louver for lumenfacade  
(See page 7 for ordering code)

### OPTION

**ETE** - End-to-end configuration,  
no jumper cable needed.  
16\" cable included at input.





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LOCATION	FAÇADE LIGHT BOXES		VOLTAGE	PER EE	
			SOURCE	LED	

## SPECIFICATION SHEET

**lumenfacade™**  
WHITE & STATIC COLORS

### ACCESSORIES

Order separately

#### Control Systems:

- LTO** Lumentouch is a wall mount DMX 512 controller keypad
- LCU** Lumencue is a USB / mini SD DMX 512 controller
- LID** lumenID is a serializing and addressing DMX 512 controller.  
It must be specified on all white DMX applications.  
Refer to LID specification sheet for details.

#### CBOX :

**iCBOX-\_\_V-\_\_-\_\_** Interior DMX 512 dimming data box.  
Data input and output, M20 provision holes with plugs.  
Voltage input and output, M20 provision holes with plugs.  
Up to four outputs to fixtures, M20 provision holes with plugs.  
Please specify desired input voltage and finish.  
Refer to iCBOX specification sheet for details.

**CBOX-\_\_V-\_\_-\_\_** DMX 512 dimming data box.  
Data input and output, M20 provision holes with plugs.  
Voltage input and output, M20 provision holes with plugs.  
Up to four outputs to fixtures, M20 provision holes with plugs.  
Please specify desired input voltage and finish.  
Refer to CBOX specification sheet for details.

#### Leader Cable :

**LOGLC** Leader Cable for lumenfacade (3 conductor cable).  
Please add desired cable length : 6, 8 or 10 feet  
Sealing endcap is mandatory for any unused connector.  
(1) included with every leader cable

**LOGLCD** Leader Cable for dimming lumenfacade (5 conductor cable).  
Please add desired cable length : 6, 8 or 10 feet  
Sealing endcap is mandatory for any unused connector.  
(1) included with every leader cable

#### Jumper Cable :


**LOGJC** Jumper Cable for lumenfacade (3 conductor cable).  
Please add desired cable length : 1, 2, 4 or 8 feet

**LOGJCD** Jumper Cable for dimming lumenfacade (5 conductor cable).  
Please add desired cable length : 1, 2, 4 or 8 feet

#### Radial Louver :

**LOGRD** Radial louver for lumenfacade.  
Please specify desired nominal length: 1', 2', 3' or 4' available.  
Please specify desired finish : BKM - Matte black  
or CC - Custom, please specify RAL color : \_\_\_\_\_



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				WATTAGE	8.5 W/LF
LOCATION	FAÇADE LIGHT BOXES			VOLTAGE	PER EE
				SOURCE	LED



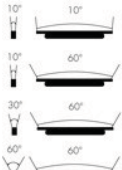
## SPECIFICATION SHEET

**lumenfacade™**

WHITE & STATIC COLORS

### HOW TO ORDER

#### LOG

Housing	Voltage	Length	Colors and color temperatures	Optic	Mounting	Finish	Dimming	Option
1	2	3	4	5	6	7	8	9
1					6			
<b>Housing:</b> LOG RO - lumenfacade™ Regular Output, 8.5W/ft LOG HO - lumenfacade™ High Output, 15.25W/ft					<b>Mounting:</b> UMP - Fixed Mounting UMAS - Universal Adjustable Mounting WAM2 - Adjustable Wall Mounting 2" WAM6 - Adjustable Extended Arm Mounting 6" WAM12 - Adjustable Extended Arm Mounting 12"			
2						7		
<b>Voltage:</b> 120 - 120 volts 208 - 208 volts 240 - 240 volts 277 - 277 volts					<b>Finish:</b> SI - Silver SandText BK - Black SandText WH - White CC - Custom (please specify RAL color)			
3							8	
<b>Length:</b> 12 - 13 3/8 inches (340mm) (2 kg/4.5 lbs) 24 - 25 3/8 inches (645mm) (3.17 kg/7 lbs) 36 - 37 3/8 inches (949mm) (4.75 kg/10.5 lbs) 48 - 49 3/8 inches (1254mm) (6.35 kg/14 lbs)					<b>Dimming:</b> DIM - 0-10V Dimming option DMX 1FT - DMX Dimming option, resolution per foot  DMX 1FT - DMX Dimming option, resolution per fixture  DALI - DALI Dimming option NO - No Dimming			
4								9
<b>Colors and Color temperatures:</b> 27K - 2700K 30K - 3000K 40K - 4000K RD - Red GR - Green BL - Blue					<b>Option:</b> ETE - End - to - end configuration, no jumper cable needed			
5								
<b>Optics:</b> 10x10 - 10° x 10° 10x60 - 10° x 60° 30x60 - 30° x 60° 60x60 - 60° x 60°								


11/11

Lumenpulse, 1751 Richardson, Suite 1505, Montreal (Quebec) Canada H3K 1G6 1.877.937.3003 P. 514.937.3003 F. 514.937.6289  
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Sustainable architectural LED lighting systems

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>		<p><b>MARINER'S POINTE</b></p> <p><b>NEWPORT BEACH, CALIFORNIA</b></p>		TYPE	S1
				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
SURFACE-MOUNTED DECORATIVE LUMINAIRE FOR DAMP LOCATIONS		ELA LIGHTING 1920<FINISH>-OP MOD - PROVIDE WITH CFL LAMPING	LAMP	GE (2) F18BX/SPX30 3000 KELVIN 82 CRI	
			WATTAGE	40	
LOCATION	1F RETAIL		VOLTAGE	PER EE	
			SOURCE	ELECTRONIC CFL	

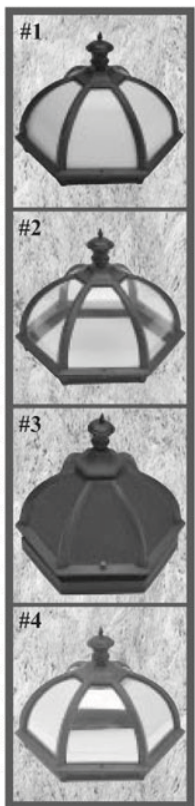


1920NROP



#### Hood Options:

The internal hood of the *Pageant* may be specified one of four ways; two lenses and two finishes. Either an opal (#1) or clear acrylic (#2) (glass available for some sizes) lens may be installed in the hood, giving added illumination or an uplight. It can also be closed, allowing the hood to be finished; with either the same color as the fixture (#3), or a contrasting finish (#4). With 12 standard finishes for the fixture and 20 different hood types and finishes available, there are hundreds of ways to specify the *Pageant*.




CAT. NO.	DIMENSIONS				LAMPS	FINISHES	LENS
	MOUNTING	Width	Height	Projection			
1910	Ceiling	7"	7 1/4"	7 1/4"	1 x 60w	For available colors, visit ELA's website or call our chart on-line.	Clear Flat Glass Lenses
1911	Wall	7"	16"	9 1/2"	1 x 60w		
1912	Pocket	7"	15"	3"	1 x 60w		
1913	Pendant	7"	15 1/2"	---	1 x 60w		Hood: Brass or Acrylic
1914	Post	7"	18"	---	1 x 60w		
1920	Ceiling	10 3/4"	10 1/2"	10"	3 x 60w		Clear Flat Glass Lenses
1921	Wall	10 3/4"	27 1/2"	11 3/4"	3 x 60w		
1922	Pocket	10 3/4"	23 1/2"	5 1/4"	2 x 60w		
1923	Pendant	10 3/4"	21 1/2"	---	3 x 60w		Hood: Brass or Glass
1924	Post	10 3/4"	24"	---	3 x 60w		
1930	Ceiling	14"	12 3/4"	13"	3 x 60w		Clear Flat Glass Lenses
1931	Wall	14"	35"	13"	5 x 60w		
1932	Pocket	14"	27"	7"	3 x 60w		
1933	Pendant	14"	31 3/4"	---	4 x 60w		
1934	Post	14"	36"	---	5 x 60w		
1940	Ceiling	15 3/4"	8 1/2"	8 1/2"	2 x 60w (med)		Clear Flat Glass Lenses
1941	Wall	15 3/4"	43"	18"	5 x 60w		
1942	Pocket	15 3/4"	32"	8 1/4"	3 x 60w		Hood: Brass or Acrylic
1943	Pendant	15 3/4"	38"	---	4 x 60w		
1944	Post	15 3/4"	34"	---	5 x 60w		

Pendants Have 3' of chain.

Cand. Base Lamps (by Others).

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(626) 965-0821 • (800) 423-6561 • FAX (626) 965-9494 • www.ela-lighting.com • e-mail: info@ela-lighting.com

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				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
SURFACE-MOUNTED DECORATIVE LUMINAIRE FOR DAMP LOCATIONS		VISA CV2014-2FS28-PTD	LAMP	(2) F28T5/830/ECO 3000 KELVIN 85 CRI 30,000 HOURS	
			WATTAGE	60	
LOCATION	IF GARAGE ENTRY AREA		VOLTAGE	PER EE	
			SOURCE	ELECTRONIC FLUORO	



Vertical or horizontal mounting

INDOOR

DECORATIVE AND PERFORMANCE

WALL / CEILING

### COMPANIONS



Avatar-Metro  
Outdoor P 362



Visage  
Wall / Ceiling P 182

# AVATAR™ - METRO™

DIFFUSE OPTIC

CV2012-JB9005

### FEATURES

- 5 year product warranty
- ADA compliant
- Removable cam-action hinged housing for ease of maintenance
- Extruded aluminum backplate and die-cast end caps
- Extruded aluminum center accent and frame side rails
- Solid metal accent bars
- Oven cured no VOC acrylic powder coat
- Symmetric distribution features extruded white acrylic diffuser
- Extruded acrylic diffuser is UV stable, UL-94 HB Flame Class rated
- Easy relamping
- Fluorescent lamping
- High power factor electronic ballast
- Versatile mounting: ceiling mount, horizontal wall, vertical wall
- Mounts to standard electrical junction box (by others) with provided hardware. XEM option requires replacement of junction box with proprietary junction box (included with XEM option). The XEM junction box is available as a ship-ahead component for rough-in if needed
- Auxiliary mounting holes and hardware provided

### SUGGESTED VARIATIONS

- Specialty paint finishes to match architectural detail
- Increase overall length of fixture to 8' maximum
- Add roll bars or rearrange roll bar locations
- Can be constructed of non-ferrous materials for use in magnetic resonance imaging (MRI) rooms






**VISA LIGHTING**  
An Oldenburg Group Company

800-788-VISA www.visalighting.com

Approved for indoor damp locations.  
Metal finishes require DCC (damp clear  
coat) for 5 year warranty

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				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #		TECHNICAL INFORMATION	
SURFACE-MOUNTED DECORATIVE LUMINAIRE FOR DAMP LOCATIONS		VISA CV2014-2FS28-PTD		LAMP	(2) F28T5/830/ECO 3000 KELVIN 85 CRI 30,000 HOURS
				WATTAGE	60
LOCATION	1F GARAGE ENTRY AREA			VOLTAGE	PER EE
				SOURCE	ELECTRONIC FLUORO

INDOOR

**SAMPLE CATALOG NUMBER**

CV2012	2F39(MVOLT)	JB9005	REM	DIFFUSE OPTIC
Model Number	Lamping Option (Voltage)	Finish	Option	

AVATAR - METRO


Model	Lamping Options	Finish	Options
Model Number	Dimensions		
CV2008	L 18-1/4" (464 mm) D 4" (102 mm) MC 9-1/8" (232 mm)	1F39	PTD FUSE XEM PMO XPS REM
CV2010	L 24-1/4" (616 mm) D 4" (102 mm) MC 12-1/8" (308 mm)	1F40 1F50 2F514	PTD FUSE XEM PMO XPS REM
CV2012	L 36" (915 mm) D 4" (102 mm) MC 18" (457 mm)	2F39 2F521	PTD FUSE REM IEM XEM PMO XPS
CV2014	L 47-3/4" (1213 mm) D 4" (102 mm) MC 23-7/8" (606 mm)	2F40 2F50 2F528	PTD FUSE REM IEM XEM PMO XPS

Note: F50 lamping is available for wall mount applications only


Note: F50 lamping is available for wall mount applications only

**LINE DRAWINGS**


CV2008




CV2010



CV2012



CV2014



**ABBREVIATION KEY**

**Dimensions**

L Length  
D Depth (measured from wall to front of fixture)  
MC Mounting Center (measured from top of fixture to center of junction box)

**Lamping Options (Voltage)**

F39 39w long twin tube, 2G11 base, FLR (MVOLT)  
F40 40w long twin tube, 2G11 base, FLR (MVOLT)  
F50 50w long twin tube, 2G11 base, FLR (MVOLT; 347V)  
FS14 14w T-5, mini bi-pin base, FLR (MVOLT)  
FS21 21w T-5, mini bi-pin base, FLR (MVOLT)  
FS28 28w T-5, mini bi-pin base, FLR (MVOLT)

Specify Voltage or MVOLT  
MVOLT is a ballast that operates 120V through 277V

**Finishes (see inside back cover)**

PTD Painted - specify color code (ex. BRNZ for Bronze)

**Options**

FUSE Fusing, specify 120V or 277V  
IEM Integral emergency battery pack, specify 120V or 277V (FS21 or FS28 dry location only)  
PMO Perforated metal overlay  
PMO Finishes  
PMO(PTD) Painted - specify color code (ex. BRNZ for Bronze)  
PMO(BA) Brushed Aluminum  
REM Remote emergency battery pack for fluorescent lamping. Not available with FS21 or FS28 lamping or 347V  
XEM Emergency battery pack mounted in provided recessed box for fluorescent lamping (replaces standard junction box). Not available with FS21 or FS28 lamping or 347V  
XPS Express 10 day shipping

**PHOTOMETRICS and BIM**

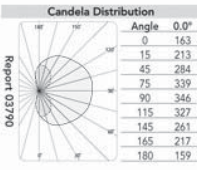
Complete BIM (Building Information Modeling) and photometric files for these models may be downloaded from [www.visalighting.com](http://www.visalighting.com)


**Reports**

IES File Number	LER	Report	page
CV2008-1F39	37		
CV2010-1F40	39	03790	409
CV2012-2F39	37		
CV2014-2F40	37		

See report on indicated page for complete detail

**Candela Distribution**





Door Height = 7'  
Ceiling Height = 9'  
Silhouette Height = 6'


198

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				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
INGRADE LINEAR WALL GRAZER WITH WARM WHITE LEDS		BEGA 8849LED PROVIDE WITH 3000 KELVIN LEDS	LAMP	3000 KELVIN LED INTEGRAL	
			WATTAGE	44	
LOCATION	MAIN STAIR		VOLTAGE	120/277	
			SOURCE	LED	

### Drive-over in-grade linear floodlights with LEDs - Asymmetrical

**Enclosure:** Outer housing: Constructed of high tensile strength, copper free die-cast aluminum alloy.

**Inner housing:** Constructed of extruded stainless steel. Trim/Faceplate is heavy gauge, machined stainless steel secured to the inner housing by stainless steel threaded welded studs. Maintenance requires removal of inner housing/trim/faceplate assembly from outer housing by means of two flush, socket head stainless steel screws. 1/4" thick tempered matte safety glass machined flush to faceplate. One piece molded U-channel, high temperature silicone gasket. Reflector is aluminum with high gloss coating.

**Electrical:** 44 W LED luminaire, -35°C start temperature. Integral 120V through 277 V electronic LED driver, dimming not available. Standard LED color temperature is 5000K. Available in 4000K; add suffix K4 to order. Available in 3000K; consult factory. Inner housing pre-wired with nine (9) feet of 18/3 water stopper cable, cable clamp, and waterproof cable gland entry into housing. A separate weatherproof single gang wiring box for power supply must be provided (by contractor).

**Note:** Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

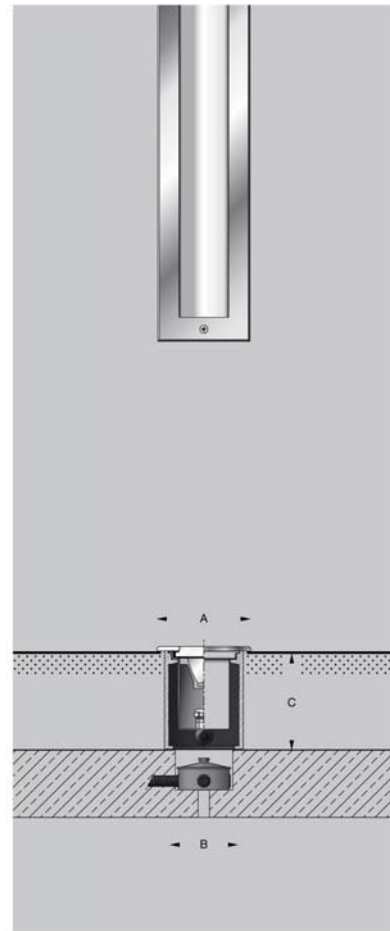
**Finish:** #4 brushed stainless steel. Custom colors are not available.

**UL Listed,** suitable for wet locations and vehicle drive over. Protection class: IP67.

**Note:** A foundation and proper drainage must be supplied by the contractor. These luminaires are designed to bear pressure loads up to 2,200 lbs. from vehicles with pneumatic tires. The luminaires must not be used for traffic lanes where they are subject to horizontal pressure from vehicles braking, accelerating and changing direction.


**Weight:** 29.8 lbs.

Type:  
BEGA Product:  
Project:  
Voltage:  
Color:  
Options:  
Modified:



#### Floodlights - Asymmetrical

Lamp	Lumen	A	B	C
8849LED 44 W LED	4000	39 3/4" ± 3/4"	3 1/4"	5"

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				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
SUBMERSIBLE LED FOUNTAIN LIGHT		FOCUS INDUSTRIES SL-33-AB-AC-ULT-BAR	LAMP	Q20MR16/SP (INCLUDED)	
			WATTAGE	20	
LOCATION	WATER FEATURE		VOLTAGE	12	
			SOURCE	LOW VOLTAGE	

## **UNDERWATER LIGHTS SL-33-SERIES**

### SPECIFICATIONS

**CONSTRUCTION:** Solid cast brass body and cap

**AIMING BRACKET (SL-33-AB, SL-33-AB-AC only):** Solid cast brass with black knobs

**LENS:** High impact clear tempered flat glass

**LAMP:** 20 watt MR16 flood (BAB) with front glass (50 watt max.)

**SOCKET:** GU5.3 high-temperature ceramic bi-pin with 250°C lead wire

**LAMP LIFE:** 5000 hours average rating; also available 10,000 hour MR16, add -10K to catalog no.

**WIRING:** 15 feet of 18/2 SJT-WA cord, side mount wiring on -SM designated models

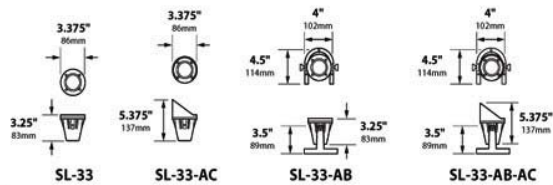
**CORD CONNECTOR:** Brass nickel-plated liquid-tight straight bushing from base of fixture

**MOUNTING:** Flush to bottom surface with aiming bracket (-AB). Wall mount with stainless steel screws 3.5" (not supplied)

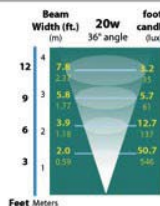
**STANDARD FINISH:** Unfinished brass, available with Black Acid Treatment. Add -BAT to catalog number

### ORDERING INFORMATION

CATALOG NO.	DESCRIPTION
SL-33	Brass Underwater light
SL-33-AC	Brass Underwater light with angle collar
SL-33-AB	Brass Underwater light, adjustable aiming bracket and black thumbscrews
SL-33-AB-AC	Brass Underwater light with angle collar and adjustable aiming bracket
SL-33-SM	Brass Underwater light with side mount cord
SL-33-SM-AC	Brass Underwater light with side mount cord and angle collar



### LIGHT DISTRIBUTIONS AND PHOTOMETRICS



FL-13-BAB-FG  
FOR SL-33 SERIES


### ACCESSORIES

				
FA-11-SL-33-BLUE	FA-11-SL-33-GREEN	FA-11-SL-33-RED	FA-11-SL-33-AMBER	FA-11-SL-33-WL
Blue Tempered Glass Lens				
Green Tempered Glass Lens				
Red Tempered Glass Lens				
Amber Tempered Glass Lens				
White Flashed Opal Tempered Glass Lens				
FA-137	For additional cord length, add length in feet to catalog number (50' max.)			
FA-154	Brass Adjustable Aiming Bracket			
FA-155-CST	Cast Brass Angle Collar (-AC)			

12v. fixtures: 25 foot 16/2 fixture lead wire available; add -25F to catalog number.  
For use with Focus CPC or hub supplied by others.

Powder Coat Finishes	Black Texture (Standard)	Antique Verde	Bronze Texture	Camel	White Texture	Hunter Texture	Rust	Weathered Iron	Weathered Brown	Stucco	Rubbed Verde	Chrome Powder	Terra Cotta
Ordering Code	-BLT	-ATV	-BRT	-CAM	-WTX	-HTX	-RST	-WIR	-WBR	-STU	-RBV	-CPR	-TRC



<div><div><div>THE</div><div></div><div>COMPANY</div></div><div><div>2 Executive Circle, Suite 290 Irvine, California 92614</div><div>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</div><div>LIGHTING DESIGN AND THEATRICAL CONSULTING</div></div></div>		<div>MARINER'S POINTE</div> <div>NEWPORT BEACH, CALIFORNIA</div>		TYPE		W1			
				ISSUE DATE		5/29/2012			
				REVISED					
FIXTURE DESCRIPTION			MANUFACTURER & PART #			TECHNICAL INFORMATION			
LINEAR FLUORESCENT WALL BRACKET FOR DAMP LOCATIONS WITH INDIRECT OPTICS AND ONE LAMP IN CROSS-SECTION - 4' LENGTH			PEERLESS CRW4-Q-28T5-PERF-WHR-4 FT-R4-<VOLTS>-GEB10-SCT-L/LP-<FINISH>-DL-DU			LAMP		F28T5/830/ECO 3000 KELVIN 85 CRI 30,000 HOURS	
						WATTAGE		30	
LOCATION		GARAGE - +5'-6" AFF				VOLTAGE		PER EE	
						SOURCE		ELECTRONIC FLUORO	

## PEERLESS®



**Cerra®**  
Indirect / Direct T5 / T5HO

Type:

Project:

<b>SPECIFICATIONS</b>	I/D Wall — Modular	<b>CRW4</b>
-----------------------	--------------------	-------------

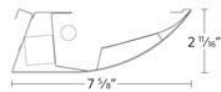
### CATALOG NUMBER

FTN

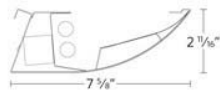
Examples: CRW4 1 54T5HO WHR 40FTN R12 277 GEB10 SCT LP835 C210 SCEP — CRW4 2 54T5HO PERF SPR 32FTN R8 277 GEB10 1SE EL DCT LP835 C210

### AVAILABLE FIXTURES

#### CRW4 - 1



#### CRW4 - 2



#### Optional sculptured end caps



### SPECIFICATIONS

#### Construction

Housing is a channel formed from one-piece cold-rolled steel. Flat end plate standard. Sculptured cast aluminum end cap is optional.

#### Shielding

Window opening with straight blade baffle and white opal overlay.

#### Reflectors

Die-formed highly reflective white reflector or die-formed highly reflective specular reflector.

#### Finish

Fine textured white polyester powder paint is standard.

#### Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with 16 ga. fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors included. C-UL label standard.


#### Fixture Length

Nominal 4', 8', and 12' sections form row lengths. Actual section length = 11 5/8" per nominal foot specified. For total run length, add 1/8" for each flat end plate or 4" for each sculptured end cap. For longer run lengths, sections are attached using internal joiners.

### ORDERING LOGIC

Use guide below to order complete fixture runs from four feet (nominal) to one-hundred feet in increments of four. 2' and 3' sections available. For additional row length increments, consult factory for details.

Fixture	# of Lamps in Cross Section	Lamp Type	Shielding	Reflector	Nominal Overall Row Length <sup>1</sup>	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules <sup>2</sup>
CRW4	1 2	54T5HO 28T5	BLANK Without PERF Perf	WHR White Reflector (Standard) SPR Specular Reflector	FTN	120 277 347	GEB10 <10% THD ELECTRONIC ADEZ <sup>3</sup> Advance Mark 10 dimming ECO <sup>4</sup> Lutron ECO-10 dimming OSOIM <sup>4</sup> Osram 0-10v dimming	Blank No Emergency 1SE 1 Section 2SE 2 Sections XSE X Sections	
<p>Emergency Type<sup>3</sup></p> <p>Blank No Emergency or Night Light EL Emergency Battery Pack EC Emergency/Night Light Circuit EN Emergency Battery Pack with Night Light Circuit</p> <p>Switching</p> <p>SCT Single Circuit DCT Dual Circuit</p> <p>Lamp Color</p> <p>L/LP No Lamp LP830 3000K 80+ CRI LP835 3500K 80+ CRI LP841 4100K 80+ CRI LP830P 3000K 80+ CRI Premier Lamp LP835P 3500K 80+ CRI Premier Lamp LP841P 4100K 80+ CRI Premier Lamp</p> <p>Reference <a href="#">Lamp Chart</a> on website or consult factory for other options.</p> <p>Finish</p> <p>C110 Painted Silver to Match Anodized Aluminum C210 Textured White White (Low Gloss) C099 Custom Color</p> <p>Options</p> <p>DL Damp Location Label DU Dust Cover ELH EM through wire w/separate feed ELS EM through wire w/single feed GLR Fusing (fast blow) GMF Fusing (slow blow) SCEP Sculptured End Cap</p> <p>Notes:</p> <p>1 Must be in 4' increments (consult factory for additional increments). 2 Optional. 3 EL and EC are installed in last 4' of fixture sections and are not available concurrently with each other. Separate feed required for each EL or EC unless ELH is specified. 4 Not available in 347 volt. 5 Not available with 28T5 Lamp Type. 6 Not available with 54T5HO Lamp Type.</p>									

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				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
LENSED, COMPACT FLUORESCENT WALL SCONCE FOR DAMP LOCATIONS		VISA CV2008-2FS28-PTD	LAMP	GE F39BX/SPX30 3000 KELVIN 12,000 HOURS	
			WATTAGE	37	
LOCATION	GARAGE- SECONDARY DOORS		VOLTAGE	PER EE	
			SOURCE	ELECTRONIC CFL	



### Avatar-Metro | CV2008

Catalog Number: CV2008-1F39(120/277V)-PMO/PT

Job:  Type:   
Client:  Approvals:

#### Dimensions

Key	English	Metric
MC (mounting center)	9-1/8"	232mm
W (width)	7-1/4"	184mm
D (depth)	4"	102mm
L (length)	18-1/4"	464mm



#### Options

##### PMO Option

- ☐ None  
☐ PMO/BA Perf Metal Overlay/Brushed Aluminum  
☒ PMO/PT Perf Metal Overlay/Painted

##### Emergency

- ☐ None  
☐ REM Remote Emergency Battery Pack  
☐ XEM Emergency Battery Pack Replaces Standard J-Box

##### Fusing

- ☐ FUSE Fusing

##### XPS Option

- ☐ XPS Express 10 Day Shipment

#### Lamping Choices

Lamping	Voltage	Max Amps
<input checked="" type="radio"/> 1F39(120/277V) (1) 39 watt, Fluorescent, TWIN, 2G11	120/277V	.38/ .17

#### Finishes

##### Finish

- |  |  |  |   |
|--|--|--|---|
| <input type="radio"/> PCTBS Unspecified            | <input type="radio"/> DR8012 Deep Red (RAL 8012)   | <input type="radio"/> NB5022 Night Blue (RAL 5022)   | <input type="radio"/> TW9016 Traffic White (RAL 9016) |
| <input type="radio"/> AG7038 Agate Grey (RAL 7038) | <input type="radio"/> GLIM Glimmer                 | <input type="radio"/> PB1035 Pearl Beige (RAL 1035)  | <input type="radio"/> VER Verdegris Powder            |
| <input type="radio"/> BBH Black-Brass Hammetone    | <input type="radio"/> GN6004 Green (RAL 6004)      | <input type="radio"/> PG7032 Pebble Grey (RAL 7032)  | <input type="radio"/> PTD Painted                     |
| <input type="radio"/> BLH Black-Silver Hammetone   | <input type="radio"/> GSIL Graphite Silver         | <input type="radio"/> RBH Red-Bronze Hammetone       |   |
| <input type="radio"/> BNAT Bronze Matte            | <input type="radio"/> GW9002 Grey White (RAL 9002) | <input type="radio"/> RCOP Rich Copper               |   |
| <input type="radio"/> BRNZ Bronze Power Coat (V6)  | <input type="radio"/> GY7005 Mouse Grey (RAL 7005) | <input type="radio"/> RG6013 Reed Green (RAL 6013)   |   |
| <input type="radio"/> BSIL Blade Silver            | <input type="radio"/> IBRS Imperial Brass          | <input type="radio"/> SLH Silver Hammetone           |   |
| <input type="radio"/> COPR Copper                  | <input type="radio"/> JB9005 Jet Black (RAL 9005)  | <input type="radio"/> SR3001 Signal Red (RAL 3001)   |   |
| <input type="radio"/> COPT Coppertone              | <input type="radio"/> MG7003 Moss Grey (RAL 7003)  | <input type="radio"/> SUNG Sungold                   |   |
| <input type="radio"/> CW9001 Cream (RAL 9001)      | <input type="radio"/> MT6033 Mint (RAL 6033)       | <input type="radio"/> TG7042 Traffic Grey (RAL 7042) |   |




Diffuser  
Translucent white acrylic diffuser.

#### Variations -

#### Notes

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 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>		<p><b>MARINER'S POINTE</b></p> <p><b>NEWPORT BEACH, CALIFORNIA</b></p>		<b>TYPE</b>	<b>W3</b>
				<b>ISSUE DATE</b>	5/29/2012
				<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>		
LENSED, COMPACT FLUORESCENT WALL SCONCE FOR DAMP LOCATIONS		ELA LIGHTING L1911-PL-<VOLTS>-<FINISH> MOD - PROVIDE WITH CFL LAMPING, OPAL GLASS LENS	<b>LAMP</b>	GE F18BX/SPX30 3000 KELVIN 82 CRI	
			<b>WATTAGE</b>	20	
<b>LOCATION</b>	MAIN STAIRWELL		<b>VOLTAGE</b>	PER EE	
			<b>SOURCE</b>	ELECTRONIC CFL	

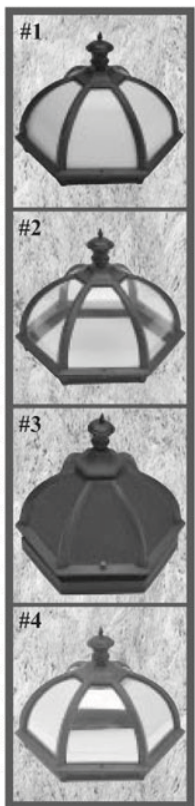


1911ORCL



#### Hood Options:

The internal hood of the *Pageant* may be specified one of four ways; two lenses and two finishes. Either an opal (#1) or clear acrylic (#2) (glass available for some sizes) lens may be installed in the hood, giving added illumination or an uplight. It can also be closed, allowing the hood to be finished; with either the same color as the fixture (#3), or a contrasting finish (#4). With 12 standard finishes for the fixture and 20 different hood types and finishes available, there are hundreds of ways to specify the *Pageant*.




CAT. NO.	DIMENSIONS				LAMPS	FINISHES	LENS
	MOUNTING	Width	Height	Projection			
1910	Ceiling	7"	7 1/4"	7 1/4"	1 x 60w	For available colors, visit ELA's showroom or chart on-line.	Clear Flat Glass Lenses
1911	Wall	7"	16"	9 1/2"	1 x 60w		
1912	Pocket	7"	15"	3"	1 x 60w		
1913	Pendant	7"	15 1/2"	----	1 x 60w		Hood: Brass or Acrylic
1914	Post	7"	18"	----	1 x 60w		
1920	Ceiling	10 3/4"	10 1/2"	10"	3 x 60w		Clear Flat Glass Lenses
1921	Wall	10 3/4"	27 1/2"	11 3/4"	3 x 60w		
1922	Pocket	10 3/4"	23 1/2"	5 1/4"	2 x 60w		
1923	Pendant	10 3/4"	21 1/2"	----	3 x 60w		Hood: Brass or Glass
1924	Post	10 3/4"	24"	----	3 x 60w		
1930	Ceiling	14"	12 3/4"	13"	3 x 60w		Clear Flat Glass Lenses
1931	Wall	14"	35"	13"	5 x 60w		
1932	Pocket	14"	27"	7"	3 x 60w		
1933	Pendant	14"	31 3/4"	----	4 x 60w		
1934	Post	14"	36"	----	5 x 60w		
1940	Ceiling	15 3/4"	8 1/2"	8 1/2"	2 x 60w (med)		Clear Flat Glass Lenses
1941	Wall	15 3/4"	43"	18"	5 x 60w		
1942	Pocket	15 3/4"	32"	8 1/4"	3 x 60w		Hood: Brass or Acrylic
1943	Pendant	15 3/4"	38"	----	4 x 60w		
1944	Post	15 3/4"	34"	----	5 x 60w		

Pendants Have 3' of chain.

Cand. Base Lamps (by Others).

ENVIRONMENTAL LIGHTING FOR ARCHITECTURE, INC. • 17891 Arenth Avenue • City of Industry, CA 91748-1197  
(626) 965-0821 • (800) 423-6561 • FAX (626) 965-9494 • www.ela-lighting.com • e-mail: info@ela-lighting.com



<div><div><div>THE</div><div></div><div>COMPANY</div></div><div><div>2 Executive Circle, Suite 290 Irvine, California 92614</div><div>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</div><div>LIGHTING DESIGN AND THEATRICAL CONSULTING</div></div></div>	<div>MARINER'S POINTE</div> <div>NEWPORT BEACH, CALIFORNIA</div>		TYPE	W4
			ISSUE DATE	5/29/2012
			REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
LOW-PROFILE METAL HALIDE WALLPACK WITH UP-DOWN OPTICS		COLE LIGHTING HMH2535-2-ST/ST PROVIDE WITH SURFACE COLLAR -SC WHERE REQUIRED	LAMP	CMH39T/U/830/G12 3000K 84 CRI 15,000 HOURS
			WATTAGE	44
LOCATION	R102 FAÇADE		VOLTAGE	PER EE
			SOURCE	ELECTRONIC MH

## COLE LIGHTING

Series	Incan.	Fluor.	HID	LED	Exterior	Interior	EM Battery	Other Options
2500		•	•		•	•	•	277V, 347V electrical Emergency battery Choice of diffusers, finishes



*Especially For*  
**LOW MOUNTING**

### Steplites

### FannyPack 2500 SERIES

#### Description

The 2500 Series Steplite is a low-level surface wall mounted fixture for illuminating walkways and walls. The design offers the capability for uplighting, downlighting, or both.

#### Features

The ADA-compliant dimensions and smooth design make the FannyPack a unique source for walkway illumination, with the added capability for uplighting. The rugged cast aluminum construction ensures long service in most public areas.

#### Applications

The FannyPack is suitable for walkway lighting along corridors, at the sides of stairs, or at columns, where the uplighting can highlight the architecture.

#### Custom

If your project demands a special fixture we would be pleased to discuss the production of custom fixtures to suit your specific conditions. For more information on our custom capabilities, please contact your local Cole representative.

#### Construction

- Housing is cast aluminum, mounted to 16 gauge stainless steel back mounting plate or back housing • Finish is textured black polyester coating. Other finishes are available • Fixture is furnished with diffuser in either top or bottom, or both • Diffuser is set in silicone • cETLus listed • Fluorescent models suitable for wet locations on any wall construction • HID models suitable for wet locations in concrete pour/block wall construction

#### Electrical

- Fixture is wired for one twin-tube compact G11 base fluorescent or G12 base metal halide lamp • 0°F (-18°C) electronic ballast, 120V/277V standard, 347V optional (fluorescent only)

#### Mounting

- Slots on mounting plate allow mounting directly to junction box for fluorescent models • Recessed housing for HID models has holes for mounting • Fixture may be mounted with diffuser(s) in any position

#### Catalog Number

Lamp	One diffuser	Two diffusers
One 18W (FT18W/2G11 base) compact fluor., 0°F	F 2518-1-(diffuser)	F 2518-2-(top diffuser/bottom diffuser)
One 26W (CFQ26W/G24q-3 base) "quad" fluor., 0°F	F 2526-1-(diffuser)	F 2526-2-(top diffuser/ bottom diffuser)
One 35W (CDM35T6/G12 base) metal halide	HMH 2535-1-(diffuser)	HMH 2535-2-(top diffuser/ bottom diffuser)
One 70W (CDM70T6/G12 base) metal halide	HMH 2570-1-(diffuser)	HMH 2570-2-(top diffuser/ bottom diffuser)

#### Options

**Alternate Finishes:** Metallic aluminum, Verdigris, or Textured White. Add suffix -ALU, -VGR, or -WHT.

**Diffusers:** Select one or two diffuser choices. If same diffuser selected for two-diffuser models, state selection twice. (Ex: F 2518-2-ST/ST) Add suffixes as required.

Ribbed glass spreadlens  
Frosted tempered glass  
Prismatic tempered glass  
Perforated panel / glass

-ST  
-FG  
-C73  
-PF

**Emergency Battery:** Fluorescent models only.

Provides 90 minutes operation. Uses metal halide model recessed housing. Add suffix -EM

**Ballasts:** 277V ballast. Add suffix -277.

347V ballast. (Fluorescent only) Add suffix -347.

#### How to Specify


1. Select catalog number.
2. Add suffixes for options required to meet job conditions.
3. Consult your Cole representative for other design changes for your requirements.



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South El Monte, CA 91733-1593

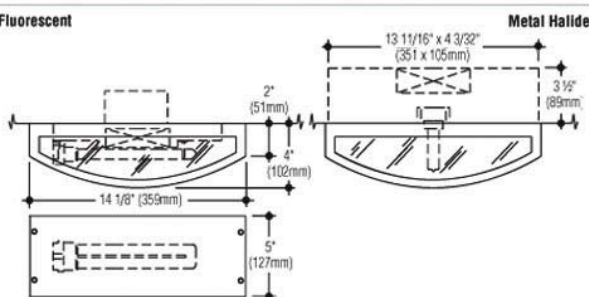
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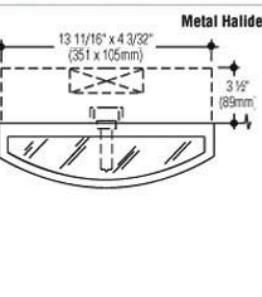
 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>		<h1>MARINER'S POINTE</h1> <h2>NEWPORT BEACH, CALIFORNIA</h2>	TYPE	W4
			ISSUE DATE	5/29/2012
			REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
LOW-PROFILE METAL HALIDE WALLPACK WITH UP-DOWN OPTICS		COLE LIGHTING HMH2535-2-ST/ST PROVIDE WITH SURFACE COLLAR -SC WHERE REQUIRED	LAMP	CMH39T/U/830/G12 3000K 84 CRI 15,000 HOURS
			WATTAGE	44
LOCATION	R102 FAÇADE		VOLTAGE	PER EE
			SOURCE	ELECTRONIC MH

C O L E L I G H T I N G

**Fluorescent**



**Metal Halide**



**Fluorescent**

Shown with 18W lamp

Lamp Type	Lumens	Multiplier
18W compact fluorescent	1250	1.00
26W "quad" fluorescent	1800	1.44

The isolux curves illustrated above show the foot-candle distribution for a F 2518-2-ST/ST fixture with an 18W compact fluorescent lamp on the left side and a HMH 2570-2-ST/ST with a 70W metal halide lamp on the right side, mounted at a height of 3'-0" with 1'-0" grid squares.

**Metal Halide**

Shown with 70W lamp

Lamp Type	Lumens	Multiplier
35W T6 metal halide	3400	0.55
70W T6 metal halide	6200	1.00

The conversion chart provides the light output figures for alternate lamp types. To calculate the footcandles for each iso curve use the conversion factors shown in the chart as multipliers of the footcandles indicated for each iso curve. IES format photometric files are available.

**Steplites**

*FannyPack*  
**2500 SERIES**

**Specifications**

**Construction**

- Housing is cast aluminum, mounted to 16 gauge stainless steel back mounting plate or back housing
- Finish is textured black polyester coating. Other finishes are available
- Fixture is furnished with diffuser in either top or bottom, or both
- Diffuser is set in silicone
- cETLus listed
- Fluorescent models suitable for wet locations on any wall construction
- HID models suitable for wet locations in concrete pour/block wall construction

**Electrical**

- Fixture is wired for one compact fluorescent or metal halide lamp
- 0°F (-18°C) electronic ballast, 120V/277V standard, 347V optional (fluorescent only)

**Mounting**

- Slots on mounting plate allow mounting directly to junction box for fluorescent models
- Recessed housing for HID models has holes for mounting
- Fixture may be mounted with diffuser(s) in any position

**Catalog Number**

Lamp	One diffuser	Two diffusers
One 18W (FT18W/G211 base) compact fluor.	F 2518-1-(diffuser)	F 2518-2-(top diffuser/bottom diffuser)
One 26W (CFQ26W/G24q-3 base) "quad" fluor.	F 2526-1-(diffuser)	F 2526-2-(top diffuser/ bottom diffuser)
One 35W (CDM35T6/G12 base) metal halide	HMH 2535-1-(diffuser)	HMH 2535-2-(top diffuser/ bottom diffuser)
One 70W (CDM70T6/G12 base) metal halide	HMH 2570-1-(diffuser)	HMH 2570-2-(top diffuser/ bottom diffuser)

**Options**

**Alternate Finishes:** Metallic aluminum, Verdigris, or Textured White. Add suffix **-ALU**, **-VGR**, or **-WHT**.

**Diffusers:** Select one or two diffuser choices. If same diffuser selected for two-diffuser models, state selection twice. (Ex: F 2518-2-ST/ST)

Add suffixes as required.


Ribbed glass spreadlens	-ST
Frosted tempered glass	-FG
Prismatic tempered glass	-C73
Perforated panel / glass	-PF
Opal glass	-OPL

**Emergency Battery:** Fluorescent models only. Provides 90 minutes operation. Uses metal halide model recessed housing. Add suffix **-EM**

**Ballasts:** 277V ballast. Add suffix **-277**. 347V ballast. (Fluorescent only) Add suffix **-347**.


**How to Specify**

- Select catalog number.
- Add suffixes for options required to meet job conditions.
- Consult your Cole representative for other design changes for your requirements.



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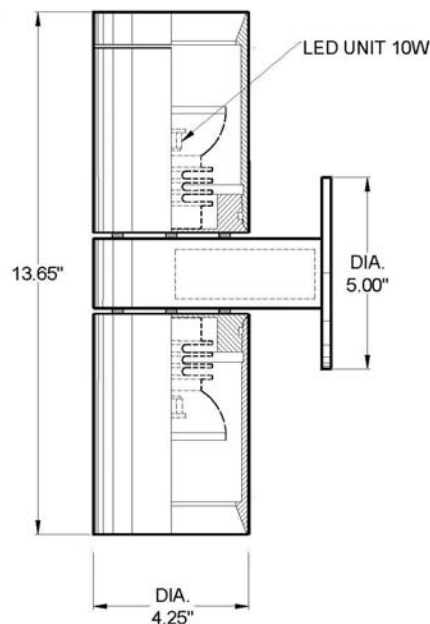
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			ISSUE DATE	5/29/2012
			REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
WALL-MOUNTED, SHIELDED LED UP-DOWN LIGHT FOR WET LOCATIONS		HK LIGHTING LED ZX30i-WM2 <FINISH>	LAMP	2700 KELVIN LED INTEGRAL 86 CRI 50,000 HOURS
			WATTAGE	20
LOCATION	R103 FAÇADE		VOLTAGE	PER EE
			SOURCE	LED

## MODEL ZX30i-WM2-LED

### LED 10WX2 INTEGRAL LED DRIVER

- The ZX30i-WM is a very compact quality lighting solution for accent or area illumination in an architectural or landscape application. Designed with a modernist edge, it is machined from anti-corrosion silicone magnesium aluminum alloy.
- Equipped with an integral LED driver, this fixture is ready to go out of the box. **No remote driver** required. 120V/277v, fixture utilizing the 10W X 2 LED units
- Anodized finish, or polyester coating with chromate conversion substrate surface
- Ozone, aging and weather resistant silicone shore 70 and 40 O-rings are used to hermetically seal and protect the fixture
- Stainless steel hardware
- Recessed light source for glare reduction
- Eight integrated weep holes drain water away from lens on "A" model
- Additional lenses, louvers and filters can be mounted inside housing for additional light control and effect.



### SPECIFICATION

NOTE: Specifications and Dimensions subject to change without notice.

MATERIAL:	Housing/Cap/Stem	SERIES: LED	MODEL: 30i-WM2	CODE
	Machined silicone magnesium aluminum alloy (6061-T6) resistant to corrosion, stainless steel (SS304) hardware. Brass and stainless steel versions available upon request	FINISHES: Anodized		ZX30i-WM2
VOLTAGE:	120 Volt (277V Contact Factory)			
WATTAGE:	10 Watt X 2			
LAMP:	LED			
FITTING:	1/2" NPS threaded male fitting			
		Polyester coating with chromate conversion substrate surface.	Black Bronze	BK BZ
		Custom colors available. Please provide international color code.		PPC


ORDER INFORMATION: Number sample:  
ZX30i-WM2 BZ = ZX30i-WM2 BZ in Painted Bronze finish

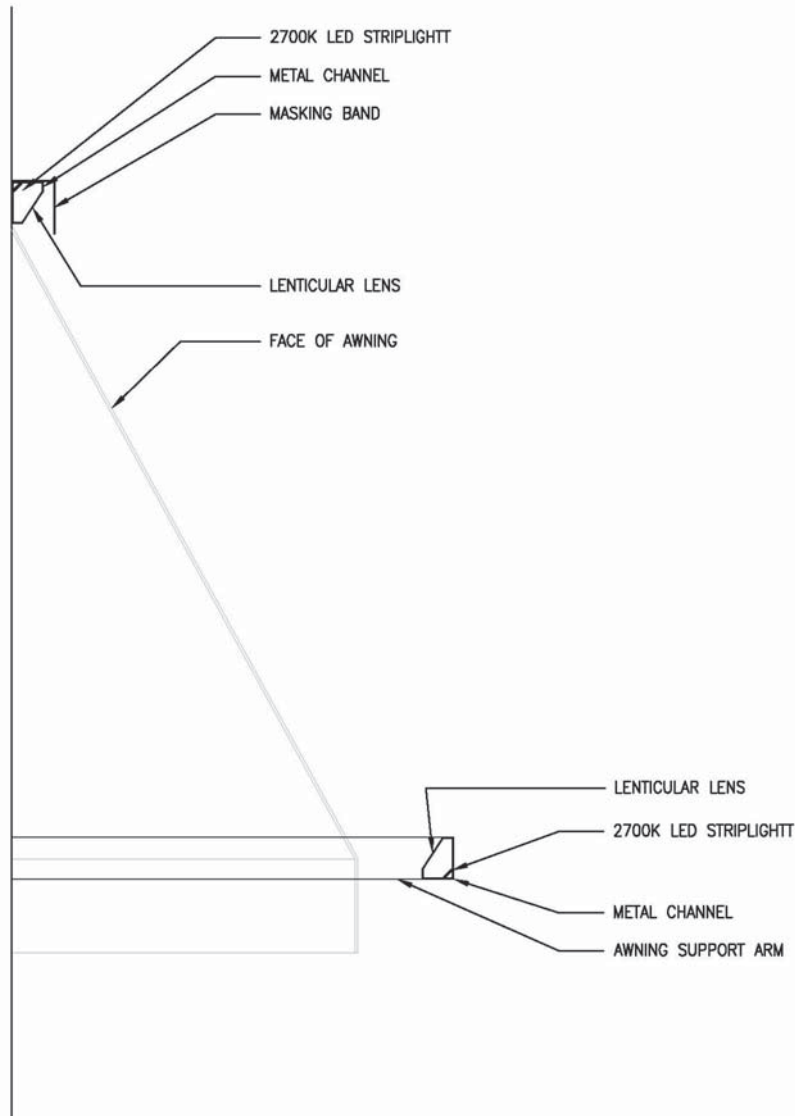
PROJECT:


TYPE:



HK LIGHTING GROUP  
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				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
BRACKET-MOUNTED LINEAR LED WASH LIGHT FOR WET LOCATIONS WITH WARM-WHITE DIODES		LED LIGHT BAR TO BE INTEGRATED IN AWNING FRAMES. J & J ELECTRONICS LLS-CB2-<LENGTHS PER DRAWINGS>-SW27-ES-<VERIFY CABLE LENGTH> MOUNTING CLIPS CGSL-MC TRANSFORMER C2288-24-<VOLTS>	LAMP	2700 KELVIN LED INTEGRAL 86 CRI 50,000 HOURS	
			WATTAGE	4 W/LF	
LOCATION	1F RETAIL AWNINGS		VOLTAGE	TBD	
			SOURCE	LED	



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		ISSUE DATE	5/29/2012
		REVISED	
FIXTURE DESCRIPTION	MANUFACTURER & PART #	TECHNICAL INFORMATION	
BRACKET-MOUNTED LINEAR LED WASH LIGHT FOR WET LOCATIONS WITH WARM-WHITE DIODES	LED LIGHT BAR TO BE INTEGRATED IN AWNING FRAMES. J & J ELECTRONICS LLS-CB2-<LENGTHS PER DRAWINGS>-SW27-ES-<VERIFY CABLE LENGTH> MOUNTING CLIPS CGSL-MC TRANSFORMER C2288-24-<VOLTS> OR COMPLETE SYSTEM AS MANUFACTURED BY EVERBRITE LIGHTING	LAMP	2700 KELVIN LED INTEGRAL 86 CRI 50,000 HOURS
		WATTAGE	4 W/LF
LOCATION	1F RETAIL AWNINGS	VOLTAGE	TBD
		SOURCE	LED

## COVEBRITE® 2 HI-OUTPUT LED LIGHTING

**C**OVEBRITE 2 LED lighting is an ideal linear lighting solution for cove lighting, retail and museum display, shelf lighting and other architectural applications where customizable lengths of seamless, linear lighting is required.

### PRODUCT SUMMARY

#### COVEBRITE 2 - I

Interior U-Channel Fixtures These open faced, double open ended fixtures allow various fixture lengths to be connected together. Fixtures can either be connected end-to-end for continuous straight runs or with jumper cables to allow fixtures to be "daisy chained" together for corner mounting and curved run installations.

#### COVEBRITE 2 - ILF

Interior Lensed Fixtures These complete fixtures come with either a clear or frosted lens. Each fixture provides a keyed connector pigtail on each end for power in/power out feeds. This allows multiple fixtures to "daisy chain" and butt together, eliminating fixture gap shadowing in continuous runs. The pigtail also facilitate corner mounting and curved run installations. Both 90° and 45° mounting clips are available as an optional accessory.

#### COVEBRITE 2 - ES

Wet Location Tube Fixtures These complete fixtures are listed for wet location applications. They are available in various lengths and include a factory attached power feed cable. The tube fixtures utilize clear, UV stabilized polycarbonate tubing and end cap components. UV polycarbonate mounting clips are available which allow 360° fixture rotation.

### KEY FEATURES

- High output LEDs, up to 324 lumens per foot
- 6" Increments
- Dimmable
- Uniform 120° optic angle ensures even and saturated light output
- ANSI bin LEDs
- Dry and wet location fixture types
- Economical and easy to install
- Made in USA



### PRODUCT SPECIFICATIONS

Input Voltage	24VAC / 24VDC	supplied from remote mounted transformers
Input Wattage (per foot)	4.6W / 24VAC	6.2W / 24VDC
Input Current (per foot)	20A / 24VAC	26A / 24VDC
LED Type	Nichia ANSI Bin	
LED Spacing	1"	
LED Beam/Optic Angle	120°	
CCT	2700K(+170K / -120K)	3500K(+210K / -300K) 5000K(+310K / -255K) 3000K & 4000K by special order (Consult factory)
CRI (minimum)	86 - 2700K	87 - 3500K 82 - 5000K
Lumen Output per IESNA LM-79-2008	24VAC powered 2700K = 154 lm/ft 3500K = 183 lm/ft 5000K = 199 lm/ft	24VDC powered 2700K = 253 lm/ft 3500K = 293 lm/ft 5000K = 324 lm/ft
Dimming	Magnetic Low Voltage type dimming switches	
Max Footage per Power Run	See Transformers section	
Operating Temperature	-40° to 104° F (-40° C to 40° C)	
Certification	ETL listed (for US and Canada)	
LED Warranty	5 Years	

IES Files available online at [www.colorgloledlighting.com](http://www.colorgloledlighting.com). Specifications subject to change without notice.

### ORDERING INFORMATION


SERIES	MODEL	LENGTH*	COLOR TEMP	FIXTURE STYLE	CABLE LENGTH*	LENS STYLE*
LLS (Linear Light System)	CB2 (CoveBrite 2 Linear LED)	(Inches) * for I and ES fixture styles specify in 6" increments, 96" max. * for ILF fixture style specify 6, 12, 18, 24, 36 or 48 For longer fixture lengths please consult factory	SW27 = 2700K SW35 = 3500K SW50 = 5000K	I = Interior U-Channel Fixture ILF = Interior Lensed Fixture ES = Wet Location Tube Fixture	* cable length for ES fixture style only Leave blank for I and ILF fixture styles 6 = 6' 15 = 15' 30 = 30' For different cable lengths please consult factory	* Lens style option for ILF fixture style only Leave blank for I and ES fixture styles C = Clear F = Frosted



Manufactured by: J&J Electronics, Inc. | 6 Bendix, Irvine, CA 92618 | 800.735.4553 | 949.455.4460 | [www.colorgloledlighting.com](http://www.colorgloledlighting.com)

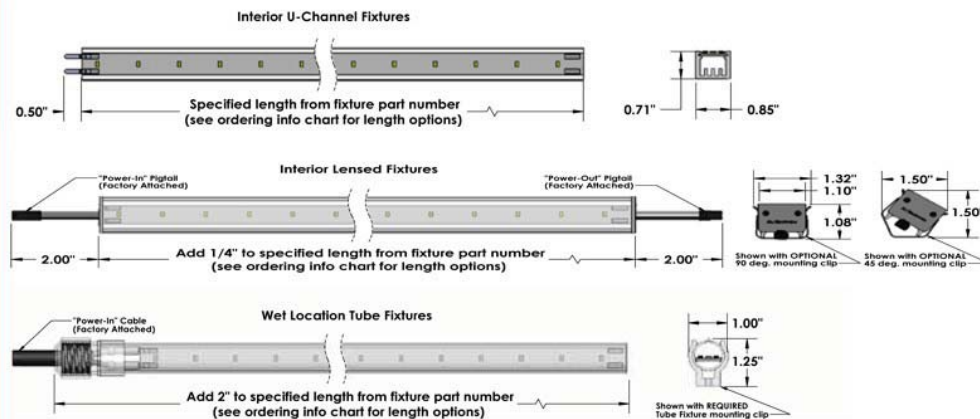




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				<p><b>ISSUE DATE</b></p>	<p>5/29/2012</p>
				<p><b>REVISED</b></p>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>		<b>TECHNICAL INFORMATION</b>	
BRACKET-MOUNTED LINEAR LED WASH LIGHT FOR WET LOCATIONS WITH WARM-WHITE DIODES		LED LIGHT BAR TO BE INTEGRATED IN AWNING FRAMES. J & J ELECTRONICS LLS-CB2-<LENGTHS PER DRAWINGS>-SW27-ES-<VERIFY CABLE LENGTH> MOUNTING CLIPS CGSL-MC TRANSFORMER C2288-24-<VOLTS> OR COMPLETE SYSTEM AS MANUFACTURED BY EVERBRITE LIGHTING		<p><b>LAMP</b></p>	<p>2700 KELVIN LED INTEGRAL 86 CRI 50,000 HOURS</p>
				<p><b>WATTAGE</b></p>	<p>4 W/LF</p>
<b>LOCATION</b>		1F RETAIL AWNINGS		<p><b>VOLTAGE</b></p>	<p>TBD</p>
				<p><b>SOURCE</b></p>	<p>LED</p>

## COVEBRITE<sup>®</sup> 2 HI-OUTPUT LED LIGHTING

### DIMENSIONS



### TRANSFORMERS

PART #	STYLE	INPUT	OUTPUT	CIRCUITS	LED Run Length
601-24	indoor	120Vac	24Vac	1 x 60 watt	1 x 12 foot max.
601-24-240	indoor	240Vac	24Vac	1 x 60 watt	1 x 12 foot max.
601-24-277	indoor	277Vac	24Vac	1 x 60 watt	1 x 12 foot max.
601-24-120-3R	indoor/outdoor	120Vac	24Vac	1 x 60 watt	1 x 12 foot max.
601-24-240-3R	indoor/outdoor	240Vac	24Vac	1 x 60 watt	1 x 12 foot max.
601-24-277-3R	indoor/outdoor	277Vac	24Vac	1 x 60 watt	1 x 12 foot max.
101-24	indoor	120Vac	24Vac	1 x 100 watt	1 x 20 foot max.
101-24-240	indoor	240Vac	24Vac	1 x 100 watt	1 x 20 foot max.
101-24-277	indoor	277Vac	24Vac	1 x 100 watt	1 x 20 foot max.
101-24-120-3R	indoor/outdoor	120Vac	24Vac	1 x 100 watt	1 x 20 foot max.
101-24-240-3R	indoor/outdoor	240Vac	24Vac	1 x 100 watt	1 x 20 foot max.
101-24-277-3R	indoor/outdoor	277Vac	24Vac	1 x 100 watt	1 x 20 foot max.
C2288-24	indoor/outdoor	120Vac	24Vac	3 x 96 watt	3 x 20 foot max.
C2288-24-240	indoor/outdoor	240Vac	24Vac	3 x 96 watt	3 x 20 foot max.
C2288-24-277	indoor/outdoor	277Vac	24Vac	3 x 96 watt	3 x 20 foot max.
481-24DCR	indoor/outdoor	120Vac	24Vdc	1 x 48 watt	1 x 7 foot max.
482-24DCR-240	indoor/outdoor	240Vac	24Vdc	1 x 48 watt	1 x 7 foot max.
483-24DCR-277	indoor/outdoor	277Vac	24Vdc	1 x 48 watt	1 x 7 foot max.
961-24DCR	indoor/outdoor	120Vac	24Vdc	1 x 96 watt	1 x 15 foot max.
962-24DCR-240	indoor/outdoor	240Vac	24Vdc	1 x 96 watt	1 x 15 foot max.
963-24DCR-277	indoor/outdoor	277Vac	24Vdc	1 x 96 watt	1 x 15 foot max.
C2240-24DCR	indoor/outdoor	120Vac	24Vdc	3 x 100 watt	3 x 15 foot max.
C2240-24DCR-240	indoor/outdoor	240Vac	24Vdc	3 x 100 watt	3 x 15 foot max.
C2240-24DCR-277	indoor/outdoor	277Vac	24Vdc	3 x 100 watt	3 x 15 foot max.

For additional transformers, please consult factory.

### ACCESSORIES


ITEM	PART #
<b>Wet Location Tube Fixture</b>	
Mounting Clip	CGSL-MC
<b>Interior U-Channel Fixture</b>	
6" Jumper Cable	LLS-CB-CA-6
1' Jumper Cable	LLS-CB-CA-12
3' Power / Jumper Cable	LLS-CB-CA-36
6' Power / Jumper Cable	LLS-CB-CA-72
12' Power Cable	LLS-CB-CA-144
16' Power Cable	LLS-CB-CA-192
20' Power Cable	LLS-CB-CA-240
30' Power Cable	LLS-CB-CA-360
<b>Interior Lensed Fixture</b>	
Mounting Clip, 90°	CGSL-ILF-MC90
Mounting Clip, 45°	CGSL-ILF-MC45
6" Jumper Cable	LLS-CB-CA-ILF-J-6
1' Jumper Cable	LLS-CB-CA-ILF-J-12
3' Jumper Cable	LLS-CB-CA-ILF-J-36
6' Jumper Cable	LLS-CB-CA-ILF-J-72
3' Power Cable	LLS-CB-CA-ILF-P-36
6' Power Cable	LLS-CB-CA-ILF-P-72
12' Power Cable	LLS-CB-CA-ILF-P-144
16' Power Cable	LLS-CB-CA-ILF-P-192
20' Power Cable	LLS-CB-CA-ILF-P-240
30' Power Cable	LLS-CB-CA-ILF-P-360



Manufactured by: J&J Electronics, Inc. | 6 Bendix, Irvine, CA 92618 | 800.735.4553 | 949.455.4460 | www.colorgloledlighting.com

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 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com LIGHTING DESIGN AND THEATRICAL CONSULTING</p>		<h1>MARINER'S POINTE</h1> <h2>NEWPORT BEACH, CALIFORNIA</h2>		<b>TYPE</b>  <b>W7</b>
		<b>ISSUE DATE</b> 5/29/2012	<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
FULL-CUTOFF DECORATIVE WALL SCONCE		GOLDEN LIGHTING RIVABELLA LARGE 10517-L	<b>LAMP</b> CF13/EL/GU24 INCLUDED	
			<b>WATTAGE</b> 13	
<b>LOCATION</b>	2F RETAIL		<b>VOLTAGE</b> 120	
			<b>SOURCE</b> CFL	

**GOLDEN LIGHTING  
SPECIFICATION SHEET  
FOR FIXTURE**

**CUSTOMER CODE:**

☐ DRAFT  
PROTOTYPE  
☒ FINAL SAMPLE

<b>DATE:</b> 12/26/2007 <b>REV DATE:</b> 1/10/2008 <b>DESIGN #</b> 7MP0517-1-L <b>ITEM #</b> 10517-L COB <b>DESC.</b> LARGE WALL FIXTURE <b>UPC #</b> 844375 00001 8 <b>FIX. SIZE:</b> 10-1/2" WIDTH 12-1/2" DIA. 22" EXT. 22" HEIGHT		<b>DRAWING / PHOTOS</b> 	
<b>MATERIAL:</b> Fe <b>FINISH:</b> COB			
<b>SHADE CODE:</b> _____ <b>SHAPE:</b> _____ <b>GLASS CODE:</b> _____		<b>MATERIAL:</b> _____ <b>PIPING:</b> _____ <b>FINISH:</b> _____	
<b>HOW TO INSTALLATION SHADE TO FIXTURE</b> <input type="checkbox"/> CLIP <input type="checkbox"/> UNO <input checked="" type="checkbox"/> OTHERS		<b>FINISH:</b> _____	
<b>ELEC. WIRE</b> LENGTH: 8" GAGE: W/B 18AWG 105°C		<b>CHAN</b> LENGTH: _____ THICKNESS: _____	
<b>PRIMARY LAMPS:</b> BULBS TYPE: MLS13GU 2700K SUPPLIED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		SOCKET TYPE: GU24 QTY: 1 WATT: 13W	
<b>SECONDARY LAMPS:</b> BULBS TYPE: _____ SUPPLIED: <input type="checkbox"/> YES <input type="checkbox"/> NO		SOCKET TYPE: _____ QTY: _____ WATT: _____	
		<b>TOTAL WATTAGE:</b> 13W	
<b>SOCKET:</b> <input type="checkbox"/> PORCELAIN <input checked="" type="checkbox"/> PHENOLIC <input type="checkbox"/> SCREW SHELL <input type="checkbox"/> W / METAL SLEEVE <input type="checkbox"/> W / POLY SLEEVE		<input type="checkbox"/> OTHERS <input type="checkbox"/> W / PLASTIC SLEEVE <b>FINISH:</b> WHITE	
<b>PACKING</b> 1 PCS / INNER BOX <input type="checkbox"/> COLOR BOX <input type="checkbox"/> COLOR LABEL W/WHITE BOX <input checked="" type="checkbox"/> BROWN BOX W/LINE DRAWING INNER BOX SIZE: 14-5/8"(L)X 13-1/4"(W)X 22"(H) CARTON CUBE: 2.47'			
2 PCS / MASTER CARTON <input type="checkbox"/> COLOR BOX <input type="checkbox"/> COLOR LABEL W/WHITE BOX <input checked="" type="checkbox"/> BROWN BOX W/LINE DRAWING MASTER CARTON SIZE: 27-1/2"(L)X 15-1/8"(W)X 22-3/4"(H) CARTON CUBE: 5.48'			
<b>N.W.</b> 2.55 KGS / PC		<b>G.W.</b> 3.5 KGS / INNER BOX 8.27 KGS / CTN	
<b>CERTIFICATE:</b> <input type="checkbox"/> UL <input checked="" type="checkbox"/> CUL <input type="checkbox"/> NOM <input type="checkbox"/> CE <input type="checkbox"/> OTHERS <b>NUMBER:</b> E211881 <b>ENVIRONMENTAL LOCATION:</b> <input type="checkbox"/> DRY <input type="checkbox"/> DAMP <input checked="" type="checkbox"/> WET			

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>		<h1>MARINER'S POINTE</h1> <h2>NEWPORT BEACH, CALIFORNIA</h2>		TYPE	W8
				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
FULL-CUTOFF WALL SCONCE		INVUE ENC-26W-CF-UNV-EB-CFM-<FINISH> FINISH: TBD	LAMP	GE F32TBX/830/A/ECO 3000 KELVIN 82 CRI	
			WATTAGE	36	
LOCATION	SECONDARY EXIT DOORS		VOLTAGE	120/277	
			SOURCE	ELECTRONIC MH	

#### DESCRIPTION

ENTRI Series' family of modular faceplate designs provide a tasteful architectural statement equally suitable for indoor and outdoor environments. Available luminous faceplate window adds a signature look, while affording custom color capability.

#### SPECIFICATION FEATURES

##### Construction

**HOUSING:** One piece die-cast aluminum construction for precise tolerance control and repeatability in manufacturing. Accommodates either up or down mounting configurations with no modifications. Downlight and uplight lens' are impact resistant 5/32" thick tempered clear or frosted flat glass, sealed to the housing with high strength VHB adhesive tape and a continuous silicone bead gasket. Silicone wireway plug on housing back wall seals incoming electrical leads to prevent moisture and dust entry.

**FACEPLATE:** One piece die-cast aluminum faceplate utilizes a continuous silicone gasket to seal securely to housing. Side hinged faceplate swings open via release of one (1) flush mount die-cast aluminum latch on housing side panel. Available luminous glass insert is .16" thick frosted glass, secured to back of faceplate with a continuous EPDM gasket. Available colored gel film secures behind glass.

##### Electrical

**ELECTRICAL COMPONENTS:** Ballast and related electrical componentry are heat sunk to the housing for cooler operation and prolonged life.

##### Optical

**OPTICAL SYSTEMS:** Choice of ten (10) high efficiency optical systems constructed of premium 95% reflective anodized aluminum sheet, or bright specular anodized polished spun aluminum. Available distributions include Type III, Type III with 10% secondary glow, Type III with pencil secondary, Forward Throw, Forward Throw with 10% secondary glow, Forward Throw with pencil secondary, FX grazing optic, FXF 50% up/50% down grazing optic, Tight Spot, and 50% up/50% down Tight Spot. Optical segments are rigidly mounted inside a heavy wall aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs, or other means of attachment which may cause streaking in the light distribution. All reflector modules feature quick disconnect wiring plugs. T6 Pulse Start Metal Halide lamps feature G12 lampholders, WhiteSon(TM) High Pressure Sodium lamp features a GX12 lampholder, Quartz Halogen lamps feature mini-can screw based lampholders, and Compact Fluorescent lamps feature GX24q (3,4,5) 4-pin lampholders.

##### Mounting

Standard zinc plated attachment plate mounts directly to 4" J-Box. Fixture slides over mounting plate and is secured with two (2) concealed stainless steel fasteners. Mounting plate features one-piece, EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates. Optional mounting arrangements utilize a die-cast aluminum adapter box to allow for surface conduit wiring, quartz lamp options, and emergency battery pack capability.

##### Finish

Housing finished in a 5 stage premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum, and graphite metallic. RAL and custom color matches available. Consult your INVUE Lighting Systems Representative for more information.



Catalog #	Type
Project	
Comments	Date
Prepared by	



### ENC ENTRI ROUND CLEAN

26 - 250W

Pulse Start Metal Halide  
Whiteson High Pressure Sodium  
Compact Fluorescent  
Quartz Halogen

ARCHITECTURAL  
WALL LUMINAIRE



NOTE: In downlight only configurations with no faceplate window.

#### DIMENSIONS



#### WATTAGE TABLE

Lamp Type	Wattage
Pulse Start Metal Halide (BMP)	35, 70, 100, 150W
WhiteSON HPS (WS)	100W
Compact Fluorescent (CF)	(1) 26, (2) 26, (1) 32, (2) 32, (1) 42, (2) 42, (1) 57W
Quartz Halogen (HL)	100, 150, 250W

#### CERTIFICATION DATA


IP66 Rated  
UL, 1599 Listed  
CSA Listed  
40°C Ambient Temperature Rating  
ISO 9001  
Full Cutoff (In downlight only configurations with no faceplate window)

#### SHIPPING DATA

(Approximate)  
Net Weight (lbs.): 13  
Volume (cu. ft.): 4.5



AVI060432 pc  
2010-06-29 15:32:59

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			ISSUE DATE	5/29/2012
			REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
FULL-CUTOFF WALL SCONCE		INVUE ENC-26W-CF-UNV-EB-CFM-<FINISH> FINISH: TBD	LAMP	GE F32TBX/830/A/ECO 3000 KELVIN 82 CRI 12,000 HOURS
			WATTAGE	36
LOCATION	SECONDARY EXIT DOORS		VOLTAGE	120/277
			SOURCE	ELECTRONIC MH

ENC-ENTRI ROUND CLEAN


### ORDERING INFORMATION

Sample Number: ENC-150-MP-120-EB-3S-BK-LG-L

Product Family ENC-ENTRI Round Clean		Lamp Wattage MP 1 39-39W 70-70W 100-100W 150-150W WS 1 100-100W Compact Fluorescent 2 26-26W 32-32W 42-42W 52- (2) 26W 57-57W 64- (2) 32W 84- (2) 42W Halogen 3 100-100W 150-150W 250-250W	Voltage 4 120-120V 208-208V 240-240V 277-277V 347-347V 480-480V DT- Dual-Tap 9 wired 277V MT- Multi-Tap 10 wired 277V TT- Triple-Tap 11 wired 347V UNV- 120/277V Universal Electronic Ballast	Optical System Downlight or Uplight, HID or Halogen 3S- Type III FT- Forward Throw FX- Wall Grazing Optic TS- Tight Spot Downlight and Uplight, HID and Halogen 3SG- Type III, 90% Main/10% Secondary Glow 3SP- Type III with Pencil Secondary FTG- Forward Throw, 90% Main/10% Secondary Glow FTP- Forward Throw with Pencil Secondary FXP- Wall Grazing Optic, 50% Up/50% Down TSF- Tight Spot, 50% Up/50% Down Compact Fluorescent CFG- 90% Main + 10% Secondary Glow CFM- 100% Main, Up or Downlighting	Optional Luminous Faceplate Insert LG- Luminous Glass Insert LGO- Luminous Glass Insert w/ Warm Orange Gel LGR- Luminous Glass Insert w/ Red Gel LGB- Luminous Glass Insert w/ Bright Blue Gel LGG- Luminous Glass Insert w/ Deep Green Gel	Accessories 20 VA2001-XX- Thru-way 16 Box VA2002- Wire Guard Kit
Lamp Type MP- Pulse Start Metal Halide WS- WhiteSON High 6 Pressure Sodium CF- Compact Fluorescent HL- Quartz Halogen		Ballast MB- Magnetic Ballast EB- Electronic 12 Ballast	Color 13 BK- Black AP- Gray BZ- Bronze WH- White DP- Dark Platinum GM- Graphite Metallic	Options 14 F- Single Fuse (120, 277 or 347V) Specify Voltage FF- Double Fuse (208, 240 or 480V) Specify Voltage DSAB- Dual Fluorescent Switching Control 15, 16 Adapter Box QAB- Quartz Restrike Adapter Box 16 EMAB- Quartz Restrike w/ Delay Adapter Box (Also 16 Strikes at Cold Start) EM/SCAB- Quartz Emergency Separate Circuit Adapter 16 Box CF/EMAB- Emergency Battery Backup Adapter Box 14, 17 PC- Button Type Photocontrol (Specify Voltage) WG- Wire Guard 18 FRM- Frosted Main Flat Glass FRS- Frosted Secondary Flat Glass 19 L- Lamp Included (Standard for all Halogen lamps)		

- Notes: 1 All MP lamps are T6 envelope with G12 lamp base. All HPS lamps are T6 envelope with GX12 lamp base.  
2 All 26/32/42/57W CF lamps feature a 4-pin lamp base. Available in CFM and CFG distributions only.  
3 Dual compact fluorescent lamps.  
4 Nominal M.O.L lamp length of 57W CFL not to exceed 7".  
5 All Halogen lamps are T4 envelope with mini-can base.  
6 WhiteSON HPS lamp available in 100W only. Requires electronic ballast. 120/277V only. Requires use of VA2001 accessory Thru-way Box.  
7 CF ballasts are 120 through 277V. Specify with UNV voltage designation.  
8 Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information.  
9 Dual-tap is 120/277V wired 277V.  
10 Multi-tap is 120/208/240/277V wired 277V.  
11 Triple-tap is 120/277/347V wired 347V.  
12 120 through 277V only. Electronic ballast standard with all CF lamps. EB available with 39/70/100/150W MP lamps. 150W requires and is supplied with VA2001 Thru-way Box. Not available with QAB or EMAB options.  
13 Custom and RAL color matching available upon request. Consult your INVUE Lighting Systems Representative for further information.  
14 Add as suffix in the order shown.  
15 Dual switching requires dual 26, 32 or 42W Compact Fluorescent lamps. Allows independent switching control of each lamp through use of two (2) electronic ballasts. Allows 50% power reduction when dual ballasts are independently wired and controlled.  
16 VA2001 and thru-way adaptor box options to be mounted facing downward only. Cannot be used for primary "uplight only" applications.  
17 CF lamps only. Battery backup provides 90 minutes of supplemental light, minimum operating temperature of 32°F (0°C), 42W maximum.  
18 For use in down lighting applications only.  
19 Frosted secondary lens provided standard on 3SG, FTG, and CFG distributions.  
20 Order separately, replace XX with color suffix.



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				ISSUE DATE		5/29/2012			
				REVISED					
FIXTURE DESCRIPTION				MANUFACTURER & PART #		TECHNICAL INFORMATION			
LARGE-SCALE FULL-CUTOFF DECORATIVE WALL SCONCE				ELA LIGHTING L1941BH-32-PL-<VOLTS>-TYPE 3 DARK SKY- <FINISH>		LAMP		GE F32TBX/830/A/ECO 3000 KELVIN 82 CRI 12,000 HOURS	
						WATTAGE		36	
LOCATION		R1032 FACADE		VOLTAGE		PER EE			
				SOURCE		ELECTRONIC CFL			

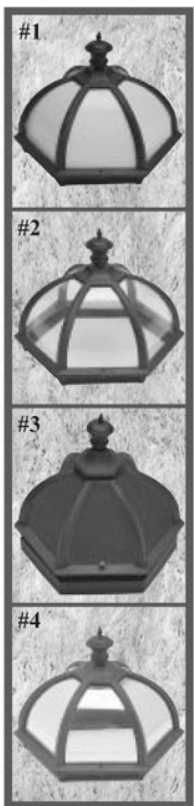
# PAGEANT



**1941HPBC**  
(w/ beveled glass)

## Hood Options:

The internal hood of the *Pageant* may be specified one of four ways; two lenses and two finishes. Either an opal (#1) or clear acrylic (#2) (glass available for some sizes) lens may be installed in the hood, giving added illumination or an uplight. It can also be closed, allowing the hood to be finished; with either the same color as the fixture (#3), or a contrasting finish (#4). With 12 standard finishes for the fixture and 20 different hood types and finishes available, there are hundreds of ways to specify the *Pageant*.




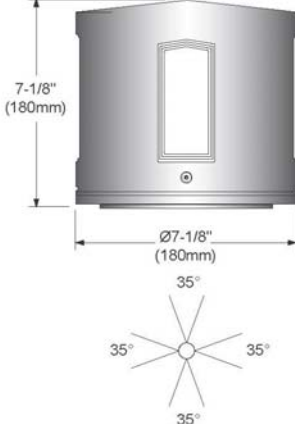
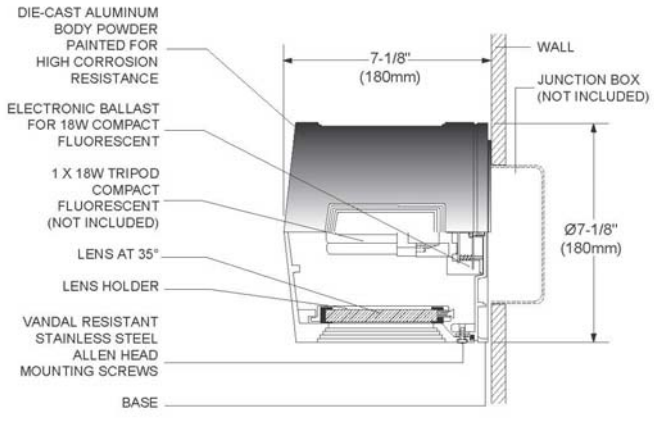

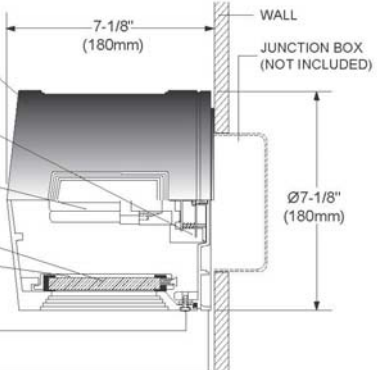

CAT. NO.	DIMENSIONS				LAMPS	FINISHES	LENS
	MOUNTING	Width	Height	Projection			
1910	Ceiling	7"	7 1/4"	7 1/4"	1 x 60w	For available colors, visit ELA's showroom or chart on-line.	Clear Flat Glass Lenses
1911	Wall	7"	16"	9 1/2"	1 x 60w		
1912	Pocket	7"	15"	3"	1 x 60w		Hood: Brass or Acrylic
1913	Pendant	7"	15 1/2"	----	1 x 60w		
1914	Post	7"	18"	----	1 x 60w		
1920	Ceiling	10 3/4"	10 1/2"	10"	3 x 60w		Clear Flat Glass Lenses
1921	Wall	10 3/4"	27 1/2"	11 3/4"	3 x 60w		
1922	Pocket	10 3/4"	23 1/2"	5 1/4"	2 x 60w		Hood: Brass or Glass
1923	Pendant	10 3/4"	21 1/2"	----	3 x 60w		
1924	Post	10 3/4"	24"	----	3 x 60w		
1930	Ceiling	14"	12 3/4"	13"	3 x 60w		Clear Flat Glass Lenses
1931	Wall	14"	35"	13"	5 x 60w		
1932	Pocket	14"	27"	7"	3 x 60w		Hood: Brass or Acrylic
1933	Pendant	14"	31 3/4"	----	4 x 60w		
1934	Post	14"	36"	----	5 x 60w		
1940	Ceiling	15 3/4"	8 1/2"	8 1/2"	2 x 60w (med)		Clear Flat Glass Lenses
1941	Wall	15 3/4"	43"	18"	5 x 60w		
1942	Pocket	15 3/4"	32"	8 1/4"	3 x 60w		Hood: Brass or Acrylic
1943	Pendant	15 3/4"	38"	----	4 x 60w		
1944	Post	15 3/4"	34"	----	5 x 60w		


Pendants Have 3' of chain.

Cand. Base Lamps (by Others).

ENVIRONMENTAL LIGHTING FOR ARCHITECTURE, INC. • 17891 Arenth Avenue • City of Industry, CA 91748-1197  
(626) 965-0821 • (800) 423-6561 • FAX (626) 965-9494 • www.ela-lighting.com • e-mail: info@ela-lighting.com

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		ISSUE DATE	5/29/2012
		REVISED	
FIXTURE DESCRIPTION	MANUFACTURER & PART #	TECHNICAL INFORMATION	
WALL-MOUNTED DECORATIVE LIGHTING ELEMENT	SISTEMALUX S.4083-120	LAMP	GE F18TBX/SPX30/A/ECO 3000 KELVIN 82 CRI
		WATTAGE	21
LOCATION	INSET PANELS AT GARAGE RAMP FAÇADE	VOLTAGE	PER EE
		SOURCE	ELECTRONIC CFL

SISTEMALUX		SPECIFICATION SHEET	
<b>BLITZ</b> <b>4 WINDOWS</b> <b>#S.4083 - -</b> <small>VOLTAGE FINISH</small> BLITZ is an outdoor fixture for ground, wall or ceiling applications. It is available with many windows configuration, projecting 35° beam. The Blitz is powder painted for high corrosion resistance.	<b>LAMPING:</b> 1 X 18W 4-PIN TRIPOD COMPACT FLUORESCENT, Gx24q-2 BASE <b>PROJECT NAME:</b> _____ <b>TYPE:</b> _____ <b>QTY:</b> _____ <small>LAST UPDATE: JANUARY 22, 2010</small>		
 <p><b>BOTTOM VIEW</b></p>  <p>             DIE-CAST ALUMINUM BODY POWDER PAINTED FOR HIGH CORROSION RESISTANCE              ELECTRONIC BALLAST FOR 18W COMPACT FLUORESCENT              1 X 18W TRIPOD COMPACT FLUORESCENT (NOT INCLUDED)              LENS AT 35°              LENS HOLDER              VANDAL RESISTANT STAINLESS STEEL ALLEN HEAD MOUNTING SCREWS              BASE           </p>		 <p><b>ISOMETRIC VIEW</b></p> <p><b>IP65</b></p> <p><b>DICHROIC LENSES</b> (ACCESSORIES NOT INCLUDED)</p> <p><b>MEDIUM COLORED DICHROIC LENSES (35°/50°)</b></p> <p> <input type="radio"/> S.4076 - RED  <input type="radio"/> S.4077 - BLUE  <input type="radio"/> S.4078 - YELLOW  <input type="radio"/> S.4079 - GREEN  <input type="radio"/> S.4040 - CLEAR           </p> <p><b>PLASTIC STAKE FOR GARDEN APPLICATION</b></p> <p> <input type="radio"/> S.3554 09-BLACK           </p> <p><b>VOLTAGE</b></p> <p> <input type="radio"/> 120 V <input type="radio"/> 277 V           </p> <p><b>METAL FINISH</b></p> <p> <input type="radio"/> 01 - WHITE  <input type="radio"/> 14 - ALUMINUM GREY           </p>	
<p><b>SECTION VIEW</b></p>  <p>             WALL              JUNCTION BOX (NOT INCLUDED)              Ø7-1/8" (180mm)           </p>			
 <p>5455 de Gaspé suite 100, Montréal (Québec) Canada H2T 3B3 P.: 514.523.1339 F.: 514.525.6107</p>		<p><b>SISTEMALUX GROUP</b></p> <p><b>BLITZ</b> 4 WINDOWS</p> <p><small>APR - R2</small></p>	

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				ISSUE DATE	5/29/2012
				REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION		
RECESSED COMPACT FLUORESCENT WALL LUMINARE WITH FULLY SHIELDED OPTICS		BEGA 2277P	LAMP	F32TBX/830/A/ECO 3000 KELVIN 82 CRI	
			WATTAGE	36	
LOCATION	SOUTH PARAPET		VOLTAGE	120/277	
			SOURCE	ELECTONIC FLUORO	

Recessed wall luminaires · shielded

**Housing:** Die-cast aluminum with integral wiring compartment.

**Enclosure:** One piece die-cast aluminum faceplate. 1/8" thick, tempered glass; clear with white translucent ceramic coating. Faceplate is secured by four (4) socket head, stainless steel, captive screws threaded into stainless steel inserts in the housing casting. Continuous high temperature O-ring gasket for weather tight operation.

**Electrical:** Compact fluorescent (26W, 32W, and 42W multiwatt socket) GX24q-3, GX24q-4 rotary lock lampholder rated 75W, 600V. Compact fluorescent ballasts are electronic universal voltage, 120V through 277V. Through Wiring: Maximum of four (4) No. 12 AWG conductors (plus ground) suitable for 75°C. Two 3/8" knockouts provided for 1/2" conduit.

**Finish:** Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

**UL** listed, suitable for wet locations and for installation within 3 feet of ground. Type non-IC. Protection class: IP65.

Type:  
BEGA Product:  
Project:  
Voltage:  
Color:  
Options:  
Modified:



	Lamp	Lumen	A	B	C	CPC*
<b>2277 P</b>	<b>ADA</b> 1 42W CF triple-4p	3200	9 3/8"	9 3/8"	5 1/2"	<b>524</b>
*Optional Concrete Protection Cover						



